SENTON

■ EMV-Prüfzentrum ■ EMI/EMC-Testcenter ■

Straubing, September 5, 2001

T E S T - R E P O R T

No. 56305-10552-1

for

PC24E-11-FC/R

RF-modem for wireless LAN

Applicant:	Agere Systems Nederland B.V.
Purpose of testing:	To show compliance with FCC Code of Federal Regulations, Part 15 Subpart C, Section §15.247

Table of Contents

1. Administrative Data

Equipment Under Test (EUT):	PC24E-11-FC/R
Serial number(s):	01UT33300016
Type of equipment:	RF-modem using DSSS technology for wireless connection for e.g. portable and mobile computers which have a PC-card-bus (PCMCIA).
Parts/accessories:	see "Configuration of EUT and Peripheral Devices" on page 7
FCC-ID:	IMRWLPCE2411R

Applicant:	Agere Systems Nederland B.V.
(full address)	Zadelstede 1-10 NL-3431 JZ Nieuwegein The Netherlands
Contract identification:	---
Contact person:	Mr. Wout Kerkhof
Manufacturer:	Agere Systems Nederland B.V.

Receipt of EUT:	August 21, 2001
Date of test:	August 24 to September 5, 2001
Note:	---

Responsible for testing:	Rainer Heller
Responsible for test report:	Rainer Heller

2. Identification of Test Laboratory

Test Laboratory: (full address):	Senton GmbH EMI/EMC Test Center Aeussere Fruehlingstrasse 45 D-94315 Straubing Germany	
Contact person:	Mr. Johann Roidt	
Communication:	Telephone Fax eMail:	(+49) 0 94 21 / 55 22-0 (+49) 0 94 21 / 55 22-99 Office@senton.de
FCC registration number:	90926	
Industry Canada file number:	IC 3050	

3. Summary of Test Results

The tested sample complies with the requirements set forth in the Code of Regulations Part 15 Subpart C, Section §15.247 (intentional radiators) of the Federal Communication Commission (FCC).

Johann Roidt
Technical Manager

Rainer Heller
Test Engineer

4. Operation Mode of EUT

All tests were performed using the "WaveLAN-II Engineering Test Program", Version v02.23 (Aug 22 2001). According to applicant three different kinds of modulation are used for transmission specified by the appropriate bit rate:

Transmit mode (TX):

Operating frequency [GHz]	Rated output power (conducted) [dBm]			Test performed [1]
	Bit rate 2 Mbps	Bit rate 5.5 Mbps	Bit rate 11 Mbps	
2.412	+15	+15	+15	X
2.417	+15	+15	+15	
2.422	+15	+15	+15	
2.427	+15	+15	+15	
2.432	+15	+15	+15	
2.437	+15	+15	+15	
2.442	+15	+15	+15	X
2.447	+15	+15	+15	
2.452	+15	+15	+15	
2.457	+15	+15	+15	
2.462	+15	+15	+15	X

Receive mode (RX):

Operating frequency [GHz]	Test performed
2.412	
2.417	
2.422	
2.427	
2.432	
2.437	
2.442	X
2.447	
2.452	
2.457	
2.462	

[1] Full testing with bit rate 11 Mbps only

5. Configuration of EUT and Peripheral Devices

RF-modem module PC24E-11-FC/R was tested operating with internal antenna and mounted in PC-card slot of notebook AT & T Globalyst 200 via PC-card extender (RF-modem module completely outside the notebook). This setup was selected to test the EUT as a modular device.

In table 1 used accessories and host equipment are listed (with Agere part numbers).

Item	Model or part no.	Serial no.	Designation	Manufacturer
RF-modem	015124	01UT33300016	PC24E-11-FC/R	Agere
PC-card extender[2]	---	C050A-9000	PCCextend 50A	Sycard Technology
Notebook	---	017-28730433	Globalyst 200	AT & T
AC adapter	---	9411	AC adapter 3150-K909-V001	AT & T

Table 1: EUT and accessories

[2] Shielding improved by connecting housing of PC-card to ground layer and connector shield of adapter board

6. Setup of Host

Configuration of cables of host

- Non shielded power line for AC-power supply of notebook, 180 cm

Configuration of host and peripheral devices

- Notebook AT & T Globalyst 200:
  Serial no.: 017-28730433 FCC-ID: A3LS3945
  with
  AC power supply AT & T AC Adapter:
  Product ID: 3150-K909-V001 Part no.: 5290000117

7. Measuring Methods

7.1. Minimum 6 dB Bandwidth (§ 15.247.a2)

The minimum 6 dB bandwidth was measured with a spectrum analyzer connected to the antenna connector (conducted measurement) while EUT was operating in transmit mode at the appropriate center frequency.
The spectrum analyzer was set to:
RBW = 100 kHz, VBW = 100 kHz, span = 50 MHz, sweep = 20 ms
See figure 1 for the measurement setup.

Test equipment used (see equipment list for details):
02, 18, 67, 68

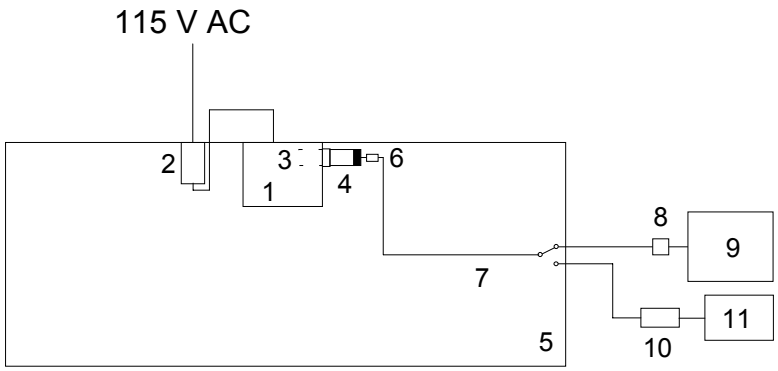


Figure 1: Measurement setup for testing on antenna connector

1 Notebook (host)
2 AC adapter for notebook
3 PC-card extender
4 RF-modem
5 Wooden table
6 DC-block
7 Test cable
8 Attenuator
9 Spectrum analyzer
10 Power sensor
11 Power meter

7.2. Maximum Peak Output Power (§ 15.247.b)

The maximum peak output power was measured with a power meter connected to the antenna connector (conducted measurement) while EUT was operating in transmit mode at the appropriate center frequency.
A spectrum analyzer (set to RBW = 100 kHz, VBW = 100 kHz, span = 100 MHz, sweep = 40 ms) was used to record the shape of the transmit signal.
See figure 1 for the measurement setup.

Test equipment used (see equipment list for details):
02, 08, 09, 18, 67, 68

7.3. Peak Power Density (§ 15.247.d)

The peak power density was measured with a spectrum analyzer connected to the antenna connector (conducted measurement) while EUT was operating in transmit mode at the appropriate center frequency.
The spectrum analyzer was set to max hold with
RBW = 3 kHz, VBW = 100 kHz, span = 300 kHz, sweep = 100 s
See figure 1 for the measurement setup.

Test equipment used (see equipment list for details):
02, 18, 67, 68

7.4. Conducted Emission 0.45 MHz - 30 MHz (§15.207)

Conducted emissions were measured in the frequency range 0.45 MHz to 30 MHz. The bandwidth of the EMI-Receiver was set to 9 kHz and the detector-function was set to CISPR quasi-peak.
The test setup was made in accordance with ANSI C63.4-1992.
Measurements were performed on phase and neutral lines of the power-cords of the tested system. Preliminary scans were taken with the detector-function of the EMI-receiver set to peak to determine the conducted EMI-profile of the EUT. At the final test the cables and equipment were placed and moved within the range of positions likely to find their maximum emissions.
See figure 2 for the measurement setup.

Test equipment used (see equipment list for details):
04, 22, 23, 60, 63

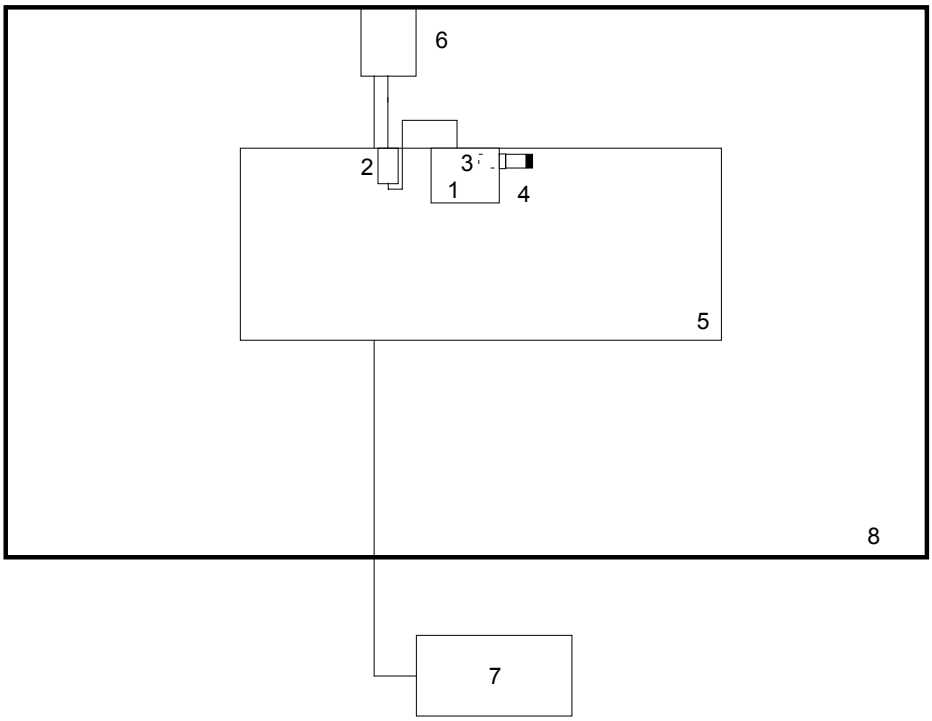


Figure 2: Measurement setup for conducted emission test

1 Notebook (host)
2 AC adapter for notebook
3 PC-card extender
4 RF-modem
5 Wooden table
6 LISN for EUT
7 Test receiver
8 Shielded room

7.5. Radiated Emission 30 MHz - 1 GHz (§15.209, §15.247.c, §15.205.a,b)

Radiated emissions were measured over the frequency range from 30 MHz to 1 GHz. The bandwidth of the EMI-receiver was set to 120 kHz and the detector-function was set to CISPR quasi-peak.
The test setup was made in accordance with ANSI C63.4-1992. Measurements were made in both the horizontal and vertical planes of polarization. Preliminary scans were taken in a semi-anechoic room using a spectrum analyzer with the detector function set to peak. All tests were performed at a test-distance of 3 meters. For final testing an open-area test-site was used. During the tests the EUT was rotated all around and the receiving-antenna was raised and lowered from 1 meter to 4 meters to find the maximum levels of emissions. The cables and equipment were placed and moved within the range of position likely to find their maximum emissions.
See figure 3 for the measurement setup.

Test equipment used (see equipment list for details):
01, 06, 12, 38, 39, 40, 41, 58, 61, 64, 66

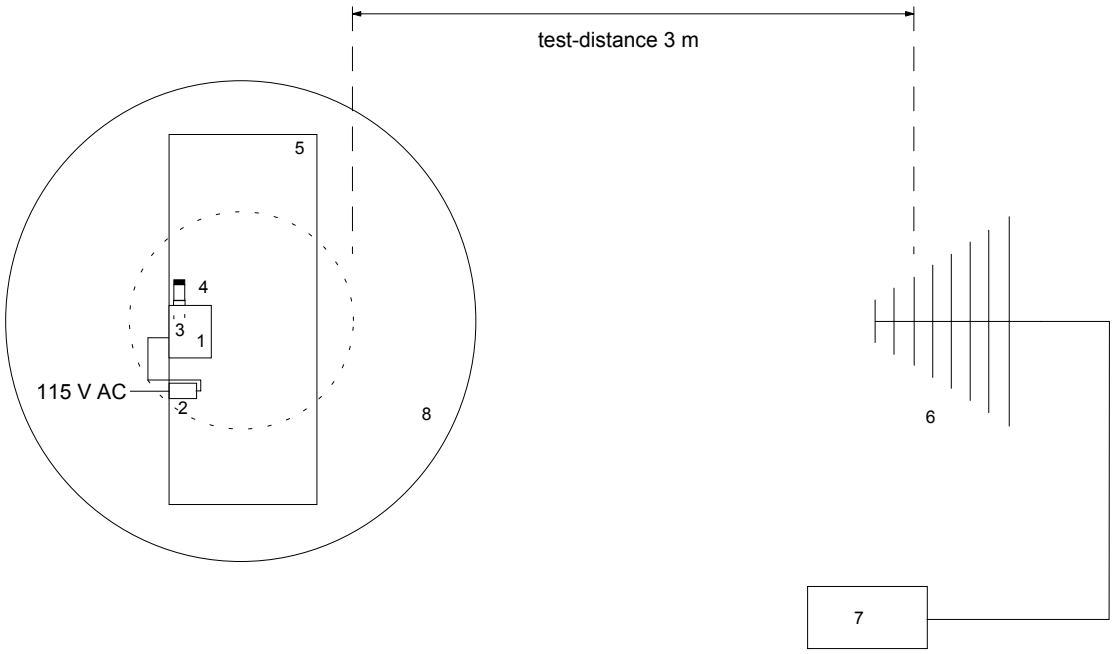


Figure 3: Measurement setup for radiated emission test below 1 GHz

1 Notebook (host)
2 AC adapter for notebook
3 PC-card extender
4 RF-modem
5 Wooden table
6 Measurement antenna
7 Test receiver
8 Turn table

7.6. Radiated Emission 1 GHz - 25 GHz (§15.209, §15.247.c, §15.205.a,b)

Radiated emissions were measured in the frequency range 1 GHz to 25 GHz in transmit mode and 1 GHz to 12.5 GHz in receive mode. The resolution bandwidth of the spectrum analyzer was set to 1 MHz. Scans for the whole frequency range were taken with video bandwidth set to 1 MHz to check out the highest peak levels. In case of less margin to average limit additional prescans were made with video bandwidth reduced from 1 MHz to 100 kHz, 30 kHz or 10 kHz. Final measurements were performed at the critical frequencies with video bandwidth of the spectrum analyzer set to 1 kHz (average mode). EUT was rotated all around and receiving antenna was raised and lowered to find the maximum levels of emission. Cables and equipment were placed and moved within the range of position likely to find their maximum emissions.
All tests were performed in a semi-anechoic chamber with a test-distance of 3 meters (except for the frequency range 18 GHz - 25 GHz where test distance was reduced to 0.5 meter).
To avoid overload in transmit mode no preamplifier was used between 1 GHz and 3.95 GHz. Above 3.95 GHz tests were performed with appropriate preamplifiers (attenuation of operating frequency by horn antenna is sufficient to avoid overload of preamplifier).
For receive mode appropriate preamplifiers were used for the whole frequency range.
To eliminate variations in amplification of the preamplifiers a signal generator was used for substitution (however, during testing a correction according to the minimum amplification was added).

Substitution was performed in the following steps:

- antenna cable was disconnected from receiving antenna and connected to signal generator output
- level of signal generator was increased until the reading value of the analyzer was the same as caused by EUT
- level of signal generator was noted
- final value was calculated by converting the signal generator level to dBµV/m and adding the antenna correction factor.

See figure 4 for the measurement setup.

Test equipment used (see equipment list for details):
02, 13, 14, 16, ,42, 43, 44, 45, 46, 47, 48, 49, 57, 64

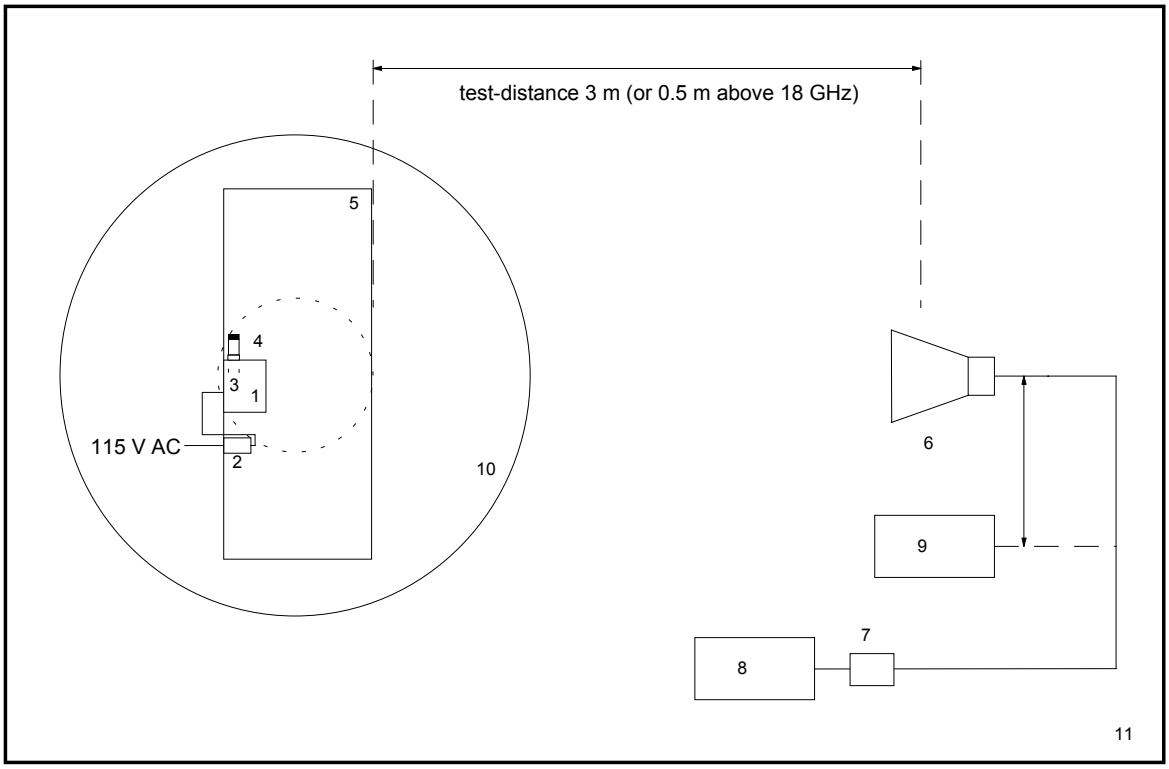


Figure 4: Measurement setup for radiated emission test above 1 GHz

1 Notebook (host)
2 AC adapter for notebook
3 PC-card extender
4 RF-modem
5 Wooden table
6 Measurement antenna
7 Preamplifier (if applicable)
8 Spectrum analyzer
9 Signal generator
10 Turn table
11 Semi-anechoic room

8. Equipment List

To facilitate reference to test equipment used for related tests, each item of test equipment and ancillaries such as cables are identified (numbered) by the Test Laboratory.

No.	Type	Model	Serial Number	Manufacturer
01	Spectrum Analyzer	R 3271	05050023	Advantest
02	EMI Test Receiver	ESMI	839379/013 839587/006	Rohde & Schwarz
03	Test Receiver	ESH 3	880112/032	Rohde & Schwarz
04	Test Receiver	ESHS 10	860043/016	Rohde & Schwarz
05	Test Receiver	ESV	881414/009	Rohde & Schwarz
06	Test Receiver	ESVP	881120/024	Rohde & Schwarz
07	Audio Analyzer	UPA	862954	Rohde & Schwarz
08	Power Meter	NRVS	836856/015	Rohde & Schwarz
09	Power Sensor	NRV-Z52	837901/030	Rohde & Schwarz
10	Power Sensor	NRV-Z4	863828/015	Rohde & Schwarz
11	Preamplifier	ESV-Z3	860907/004	Rohde & Schwarz
12	Preamplifier	R14601		Advantest
13	Preamplifier	ACX/080-3030	32640	CTT
14	Preamplifier	ACO/180-3530	32641	CTT
15	Signal Generator	SMS	872166/039	Rohde & Schwarz
16	Signal Generator	HP 8673 D	2930A00966	Hewlett Packard
17	Waveform Generator	HP 33120 A	US34005375	Hewlett Packard
18	Attenuator 20 dB	4776-20	9503	Narda
19	Attenuator 10 dB	4776-10	9412	Narda
20	Pulse Limiter	ESH 3-Z2	1144	Rohde & Schwarz
21	Pulse Limiter	11947 A	3107A00566	Hewlett Packard
22	V-Network	ESH 3-Z5	862770/018	Rohde & Schwarz
23	V-Network	ESH 3-Z5	894785/005	Rohde & Schwarz
24	V-Network	ESH 3-Z5	830952/025	Rohde & Schwarz
25	V-Network	ESH 3-Z6	830722/010	Rohde & Schwarz
26	V-Network	NSLK 8127	8127152	Schwarzbeck
27	V-Network	NNLA 8119	8119148	Schwarzbeck
28	V-Network	SE 01	01	Senton
29	T-Network	ESH 3-Z4	890602/011	Rohde & Schwarz
30	T-Network	ESH 3-Z4	890602/012	Rohde & Schwarz
31	High Impedance Probe	TK 9416	01	Schwarzbeck
32	High Impedance Probe	TK 9416	02	Schwarzbeck
33	Current Probe	ESH 2-Z1	863366/18	Rohde & Schwarz
34	Current Probe	ESV-Z1	862553/3	Rohde & Schwarz

No.	Type	Model	Serial Number	Manufacturer
35	Absorbing Clamp	MDS 21	80911	Lüthi
36	Absorbing Clamp	MDS 21	79690	Lüthi
37	Loop Antenna	HFH2-Z2	882964/1	Rohde & Schwarz
38	Biconical Antenna	HK 116	842204/001	Rohde & Schwarz
39	Biconical Antenna	HK 116	836239/02	Rohde & Schwarz
40	Log. Periodic Antenna	HL 223	841516/023	Rohde & Schwarz
41	Log. Periodic Antenna	HL 223	834408/12	Rohde & Schwarz
42	Horn Antenna	3115	9508-4553	Emco
43	Horn Antenna	3160-03	9112-1003	Emco
44	Horn Antenna	3160-04	9112-1001	Emco
45	Horn Antenna	3160-05	9112-1001	Emco
46	Horn Antenna	3160-06	9112-1001	Emco
47	Horn Antenna	3160-07	9112-1008	Emco
48	Horn Antenna	3160-08	9112-1002	Emco
49	Horn Antenna	3160-09	9403-1025	Emco
50	Digital multimeter	199	463386	Keithley
51	DC Power Supply	NGSM 32/10	203	Rohde & Schwarz
52	DC Power Supply	NGB	2455	Rohde & Schwarz
53	DC Power Supply	NGA	386	Rohde & Schwarz
54	Temperature Test Chamber	HT4010	07065550	Heraeus
55	Cable	RG214	1309	Senton
56	Cable	200CM_001	1357	Rosenberger
57	Cable	150CM_001	1479	Rosenberger
58	Cable Set EG1	RG214	1189 - 1191	Senton
59	Cable Set Cabine 1	RG214		Senton
60	Cable Set Cabine 2	RG214		Senton
61	Cable Set Cabine 3	RG214		Senton
62	Shielded Room	No. 1	1451	Senton
63	Shielded Room	No. 2	1452	Senton
64	Semi-anechoic Chamber	No. 3	1453	Siemens
65	Shielded Room	No. 4	1454	Euroshield
66	Open Area Test Site	EG 1		Senton
67	Cable for Antenna Connector			Agere
68	DC Block 0.01-18GHz		8037	Inmet Corp.
69	High pass filter			Agere

9. Photographs Taken During Testing

Photo No. 9.1

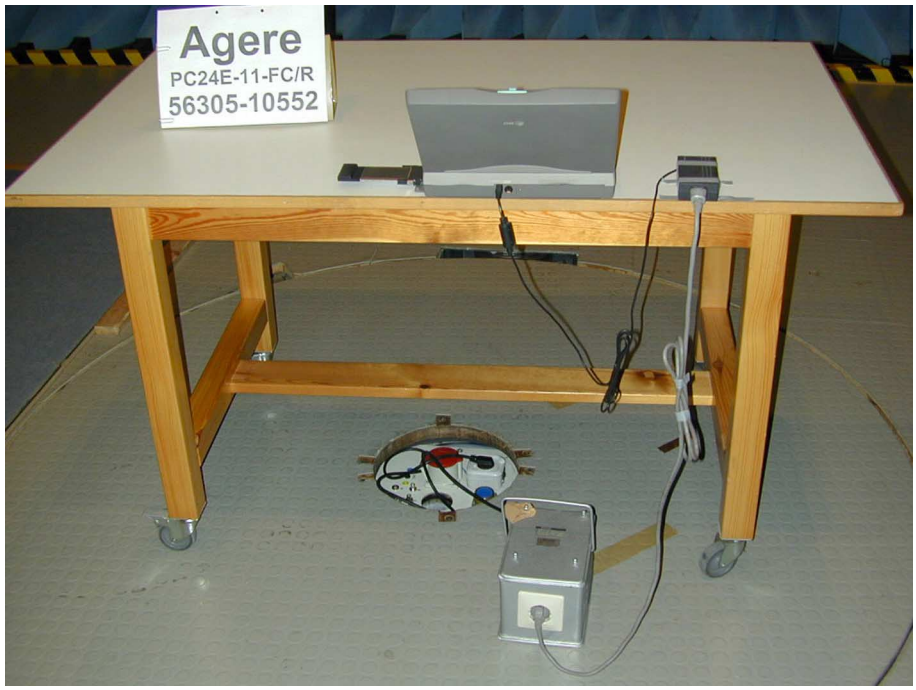
Test setup for conducted emission test 450 kHz - 30 MHz

Photos No. 9.2 - 9.3

Test setup for conducted emission test 450 kHz - 30 MHz (continued)

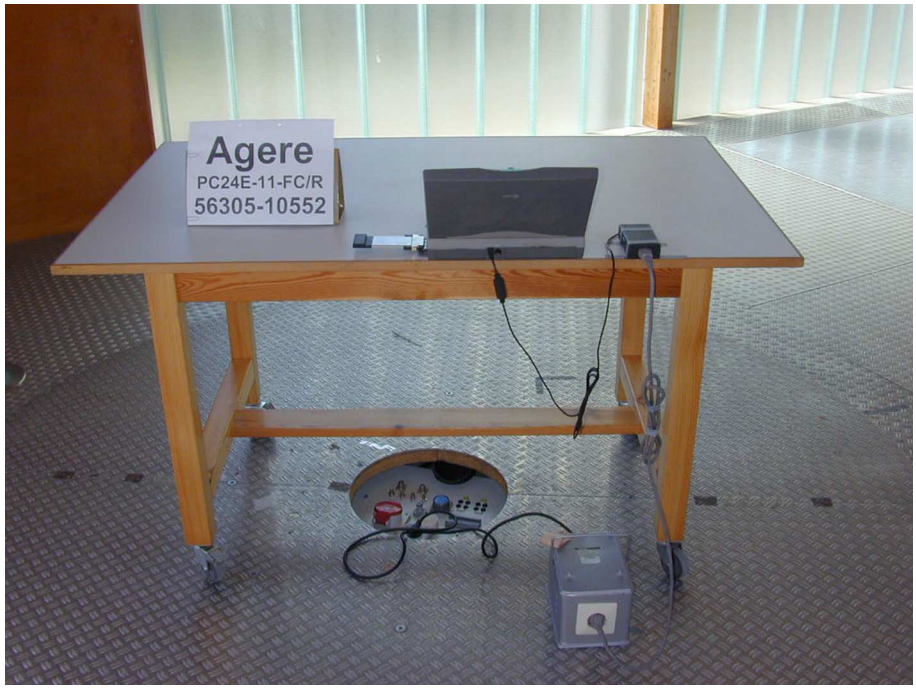
Photos No. 9.4 - 9.5

Test setup for radiated emission pre-test 30 MHz - 1 GHz (semi anechoic room)



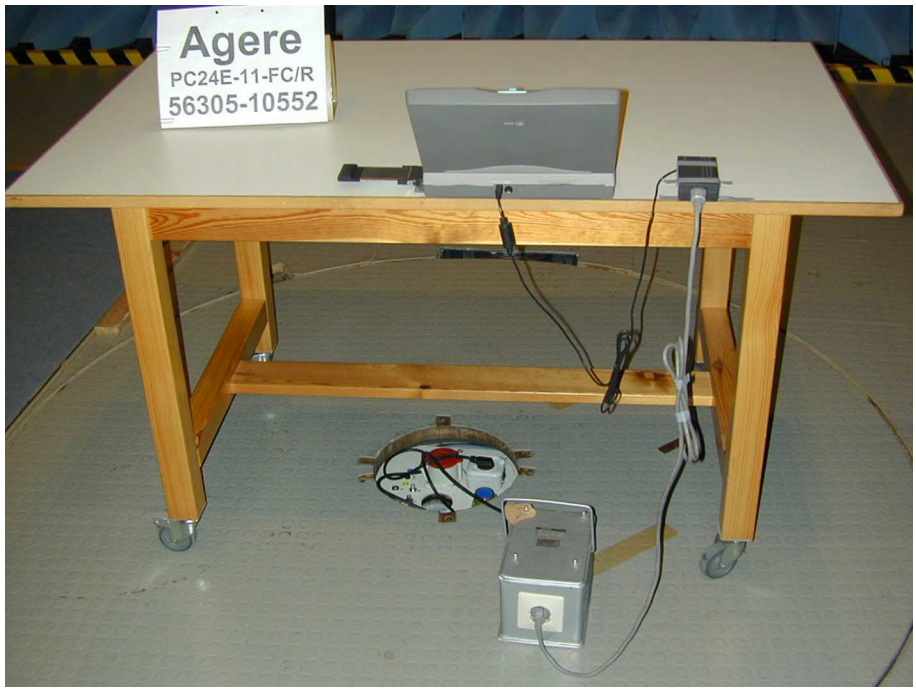
Photos No. 9.6 - 9.7

Test setup for radiated emission final test 30 MHz - 1 GHz
(open area test site)



Photos No. 9.8 - 9.9

Test setup for radiated emission test above 1 GHz (semi anechoic room)



10. List of Measurements

FCC Part 15 Subpart C			
Section(s):	**Test**	**Page**	**Result**
	Transmit mode (TX):	29	
§15.247.a2	Minimum 6 dB bandwidth	30	passed
§15.247.b	Maximum peak output power	39	passed
§15.247.d	Peak power density	49	passed
§15.247.d	Frequency range (conducted)	67	for information only
§15.247.e	Processing gain	---	not required acc. to DA 00-2317
§15.207	Conducted emission test 450 kHz - 30 MHz	71	passed
§15.247.c §15.209 §15.205.a,b	Radiated emission test 9 kHz - 30 MHz	---	not applicable (acc. to §15.33)
§15.247.c §15.209 §15.205.a,b	Radiated emission test 30 MHz - 1 GHz	83	passed
§15.247.c §15.209 §15.205.a,b	Radiated emission test 1 GHz - 25 GHz	107	passed
	Receive mode (RX):	143	
§15.207	Conducted emission test 450 kHz - 30 MHz	144	passed
§15.209	Radiated emission test 9 kHz - 30 MHz	---	not applicable (acc. to §15.33)
§15.209	Radiated emission test 30 MHz - 1 GHz	148	passed
§15.209	Radiated emission test 1 GHz - 12.5 GHz	156	passed

Note 1: Maximum peak output power was measured while either using bit rate 2, 5.5 or 11 Mbps. Radiated emission tests in transmit mode were performed with bit rate set to 11 Mbps only.
However, special care was taken to observe the difference especially in average results of TX fundamental and (even) harmonics when selecting 11 (or 5.5) Mbps on the one hand, and 2 Mbps on the other hand. Therefore additional emission tests at band edges and TX harmonics were performed with 2 Mbps.
Having less significant differences in peak results than in average levels only critical harmonics observed with 11 Mbps (i.e. with less than 10 dB margin of peak levels to average limit) had to be retested with bit rate set to 2 Mbps.

11. Test Results

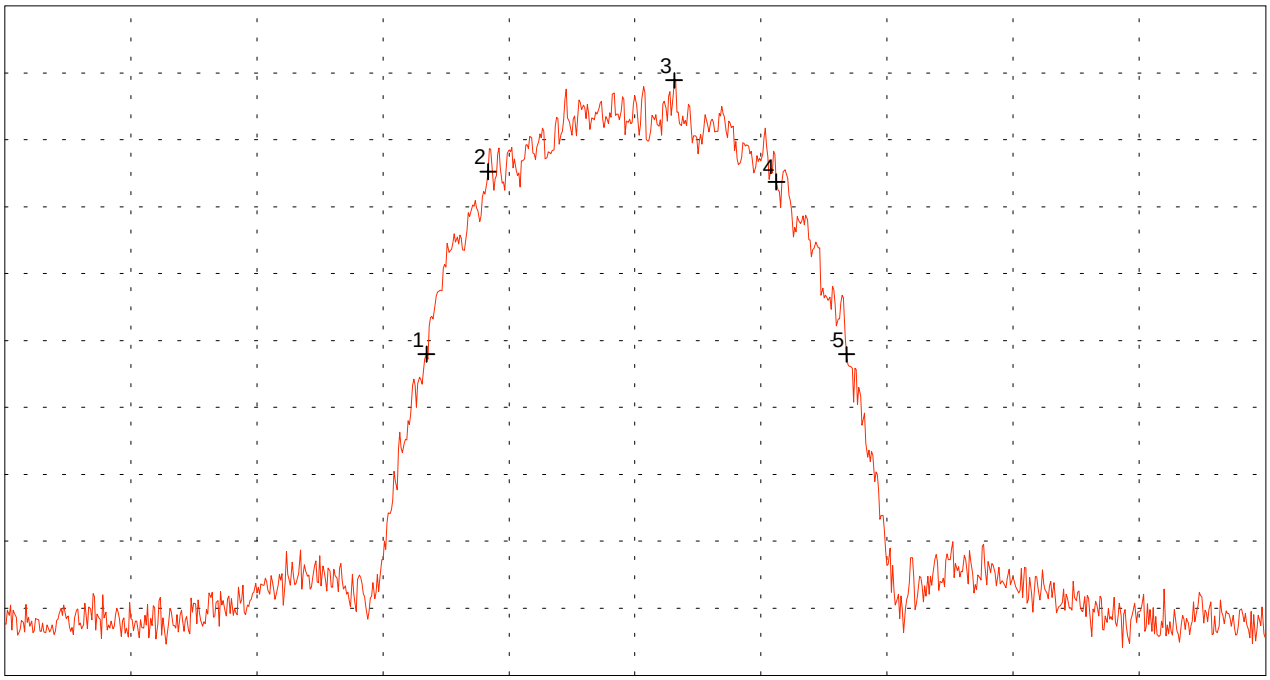
Test results for

Transmit (TX) mode

Minimum bandwidth (conducted) acc. to FCC Part 15 Subpart C

Model: PC24E-11-FC/R	Mode: - FCC test setup - supply voltage 115 V AC - RF-modem mounted in notebook AT&T Globalyst 200 via PC-card extender Sycard PCCextend 50A - shielding of PC-card extender improved - operating with bit rate 11 Mbps - TX mode with f = 2.412 GHz Tested on: antenna connector Delta f (-6 dB points) = 11.44 MHz Result: Test passed Note: -20 dB points for information only!
Serial No.: 01UT33300016	
Applicant: Agere Systems Nederland B.V.	

Ref.Level 10 dBm ATT 35 dB Ref. Offset 21 dB
5 dB/Div.



Start 2.387 GHz Stop 2.437 GHz
RBW 100 kHz VBW 100 kHz SWP 20 ms

Multi Marker List

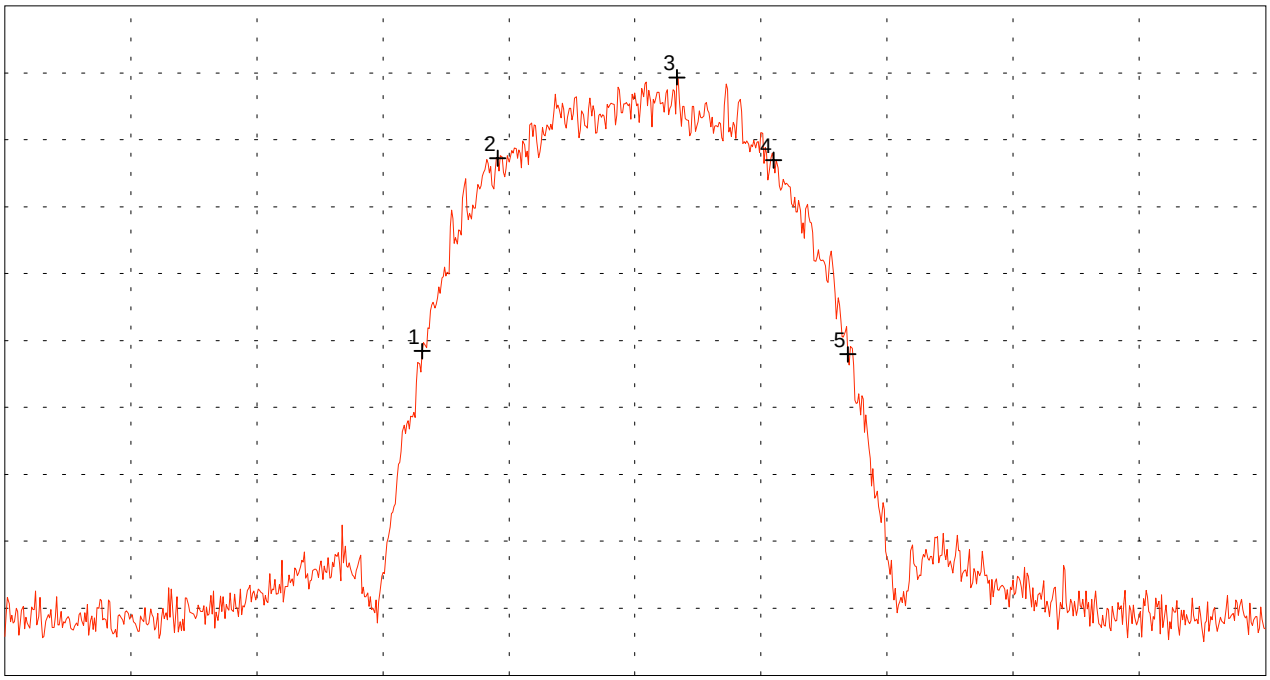
No. 1	2.403722 GHz	-16.02 dBm
No. 2	2.406167 GHz	-2.38 dBm
No. 3	2.413556 GHz	4.44 dBm
No. 4	2.417611 GHz	-3.15 dBm
No. 5	2.420389 GHz	-16.03 dBm

Tested by: Rainer Heller	Project-No.: 56305-10552-1
Date: 08/05/2001	Page 30 of 157 Pages

Minimum bandwidth (conducted) acc. to FCC Part 15 Subpart C

Model: PC24E-11-FC/R	Mode: - FCC test setup - supply voltage 115 V AC - RF-modem mounted in notebook AT&T Globalyst 200 via PC-card extender Sycard PCCextend 50A - shielding of PC-card extender improved - operating with bit rate 5.5 Mbps - TX mode with f = 2.412 GHz Tested on: antenna connector Delta f (-6 dB points) = 10.94 MHz Result: Test passed Note: -20 dB points for information only!
Serial No.: 01UT33300016	
Applicant: Agere Systems Nederland B.V.	

Ref.Level 10 dBm ATT 35 dB Ref. Offset 21 dB
5 dB/Div.



Start 2.387 GHz Stop 2.437 GHz
RBW 100 kHz VBW 100 kHz SWP 20 ms

Multi Marker List

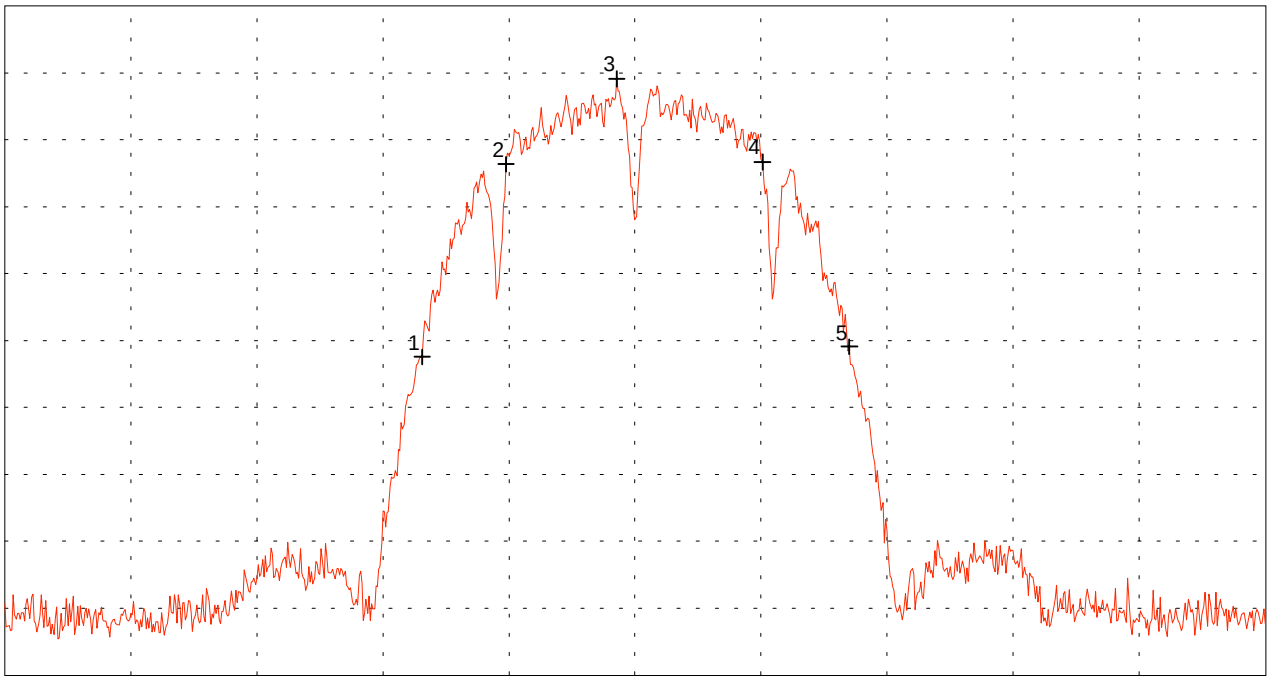
No. 1	2.403556 GHz	-15.80 dBm
No. 2	2.406556 GHz	-1.38 dBm
No. 3	2.413667 GHz	4.67 dBm
No. 4	2.417500 GHz	-1.53 dBm
No. 5	2.420444 GHz	-16.04 dBm

Tested by: Rainer Heller	Project-No.: 56305-10552-1
Date: 08/05/2001	Page 31 of 157 Pages

Minimum bandwidth (conducted) acc. to FCC Part 15 Subpart C

Model: PC24E-11-FC/R	Mode: - FCC test setup - supply voltage 115 V AC - RF-modem mounted in notebook AT&T Globalyst 200 via PC-card extender Sycard PCCextend 50A - shielding of PC-card extender improved - operating with bit rate 2 Mbps - TX mode with f = 2.412 GHz Tested on: antenna connector Delta f (-6 dB points) = 10.16 MHz Result: Test passed Note: -20 dB points for information only!
Serial No.: 01UT33300016	
Applicant: Agere Systems Nederland B.V.	

Ref.Level 10 dBm ATT 35 dB Ref. Offset 21 dB
5 dB/Div.



Start 2.387 GHz Stop 2.437 GHz
RBW 100 kHz VBW 100 kHz SWP 20 ms

Multi Marker List

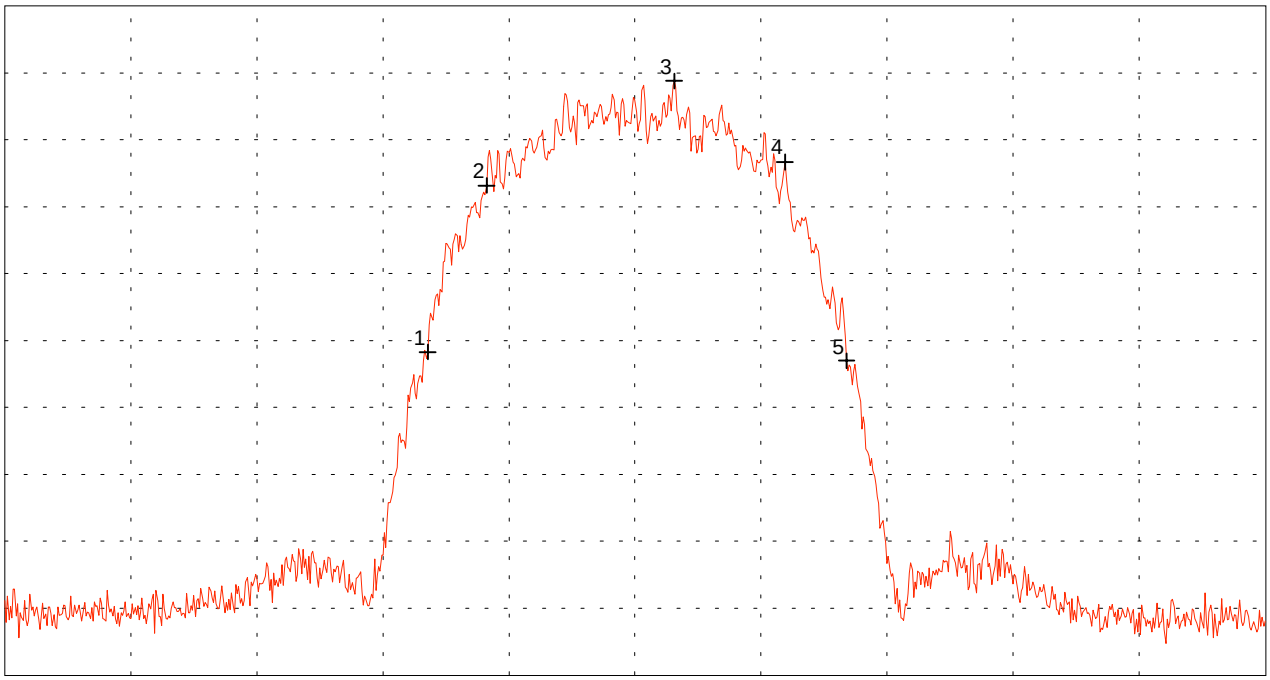
No. 1	2.403556 GHz	-16.23 dBm
No. 2	2.406889 GHz	-1.83 dBm
No. 3	2.411278 GHz	4.56 dBm
No. 4	2.417056 GHz	-1.66 dBm
No. 5	2.420500 GHz	-15.47 dBm

Tested by: Rainer Heller	Project-No.: 56305-10552-1
Date: 08/05/2001	Page 32 of 157 Pages

Minimum bandwidth (conducted) acc. to FCC Part 15 Subpart C

Model: PC24E-11-FC/R	Mode: - FCC test setup - supply voltage 115 V AC - RF-modem mounted in notebook AT&T Globalyst 200 via PC-card extender Sycard PCCextend 50A - shielding of PC-card extender improved - operating with bit rate 11 Mbps - TX mode with f = 2.442 GHz Tested on: antenna connector Delta f (-6 dB points) = 11.83 MHz Result: Test passed Note: -20 dB points for information only!
Serial No.: 01UT33300016	
Applicant: Agere Systems Nederland B.V.	

Ref.Level 10 dBm ATT 35 dB Ref. Offset 21 dB
5 dB/Div.



Start 2.417 GHz Stop 2.467 GHz
RBW 100 kHz VBW 100 kHz SWP 20 ms

Multi Marker List

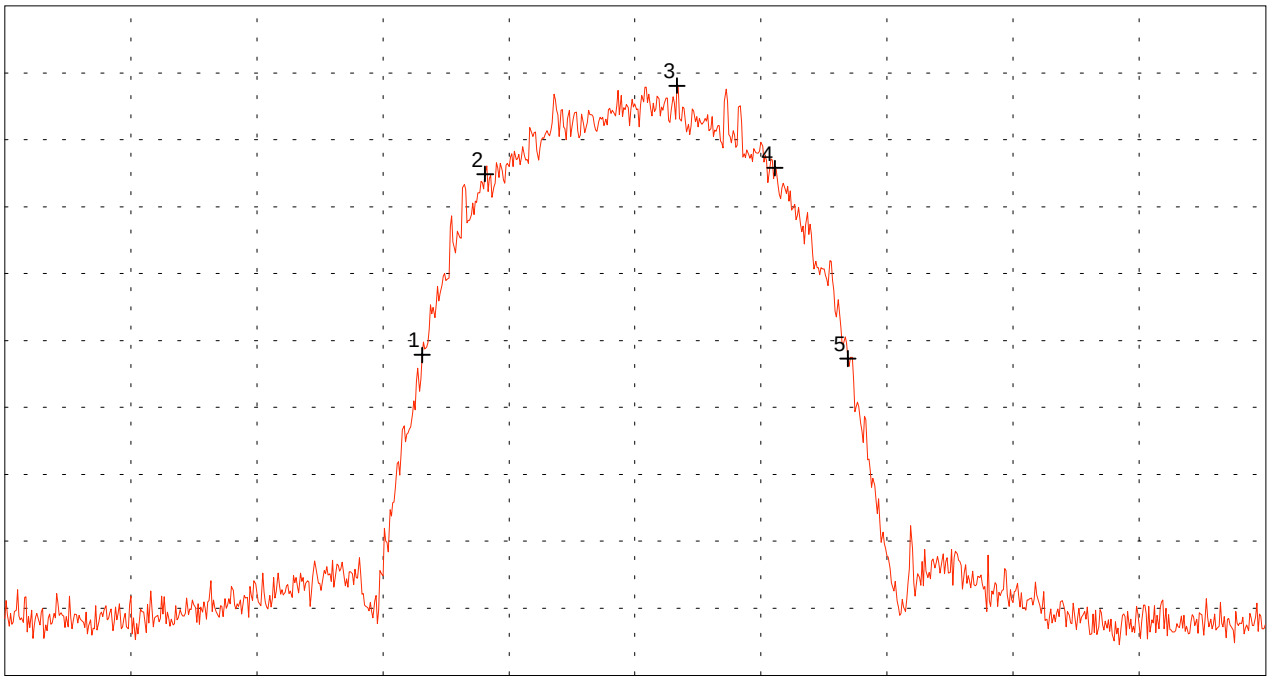
No. 1	2.433778 GHz	-15.85 dBm
No. 2	2.436111 GHz	-3.41 dBm
No. 3	2.443556 GHz	4.40 dBm
No. 4	2.447944 GHz	-1.66 dBm
No. 5	2.450389 GHz	-16.52 dBm

Tested by: Rainer Heller	Project-No.: 56305-10552-1
Date: 08/05/2001	

Minimum bandwidth (conducted) acc. to FCC Part 15 Subpart C

Model: PC24E-11-FC/R	Mode: - FCC test setup - supply voltage 115 V AC - RF-modem mounted in notebook AT&T Globalyst 200 via PC-card extender Sycard PCCextend 50A - shielding of PC-card extender improved - operating with bit rate 5.5 Mbps - TX mode with f = 2.442 GHz Tested on: antenna connector Delta f (-6 dB points) = 11.50 MHz Result: Test passed Note: -20 dB points for information only!
Serial No.: 01UT33300016	
Applicant: Agere Systems Nederland B.V.	

Ref.Level 10 dBm ATT 35 dB Ref. Offset 21 dB
5 dB/Div.



Start 2.417 GHz Stop 2.467 GHz
RBW 100 kHz VBW 100 kHz SWP 20 ms

Multi Marker List

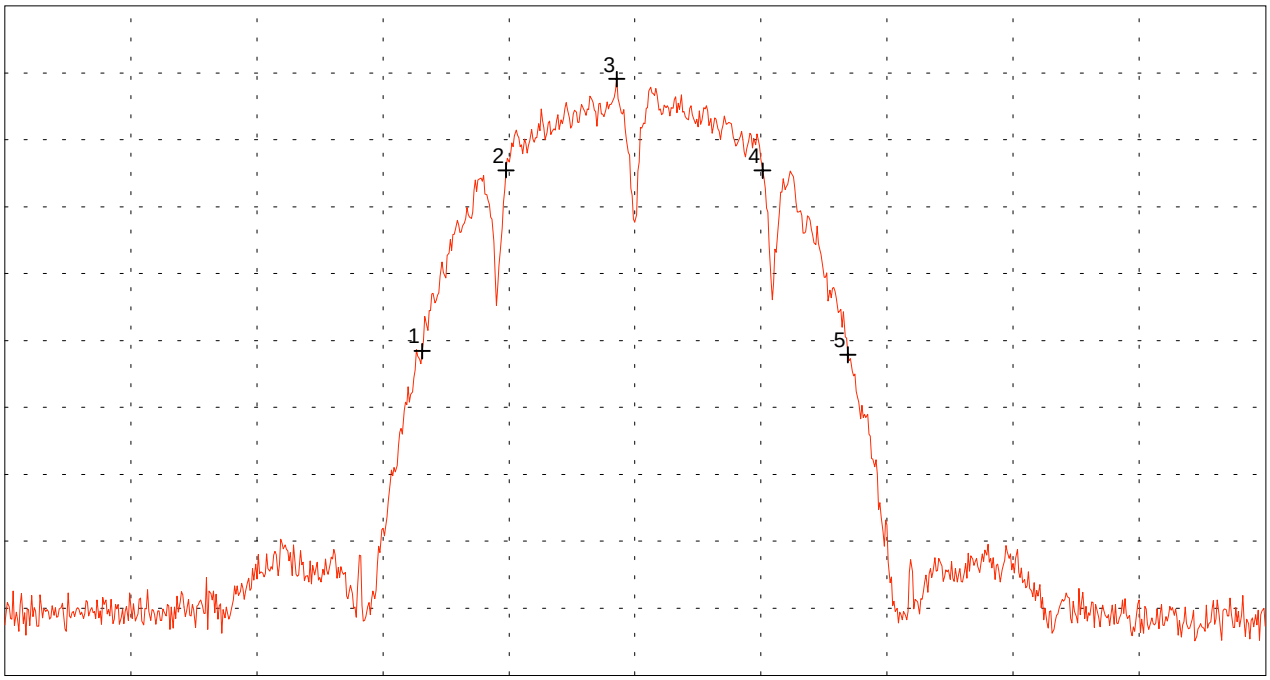
No. 1	2.433556 GHz	-16.08 dBm
No. 2	2.436056 GHz	-2.56 dBm
No. 3	2.443667 GHz	4.04 dBm
No. 4	2.447556 GHz	-2.11 dBm
No. 5	2.450444 GHz	-16.36 dBm

Tested by: Rainer Heller	Project-No.: 56305-10552-1
Date: 08/05/2001	Page 34 of 157 Pages

Minimum bandwidth (conducted) acc. to FCC Part 15 Subpart C

Model: PC24E-11-FC/R	Mode: - FCC test setup - supply voltage 115 V AC - RF-modem mounted in notebook AT&T Globalyst 200 via PC-card extender Sycard PCCextend 50A - shielding of PC-card extender improved - operating with bit rate 2 Mbps - TX mode with f = 2.442 GHz Tested on: antenna connector Delta f (-6 dB points) = 10.16 MHz Result: Test passed Note: -20 dB points for information only!
Serial No.: 01UT33300016	
Applicant: Agere Systems Nederland B.V.	

Ref.Level 10 dBm ATT 35 dB Ref. Offset 21 dB
5 dB/Div.



Start 2.417 GHz Stop 2.467 GHz
RBW 100 kHz VBW 100 kHz SWP 20 ms

Multi Marker List

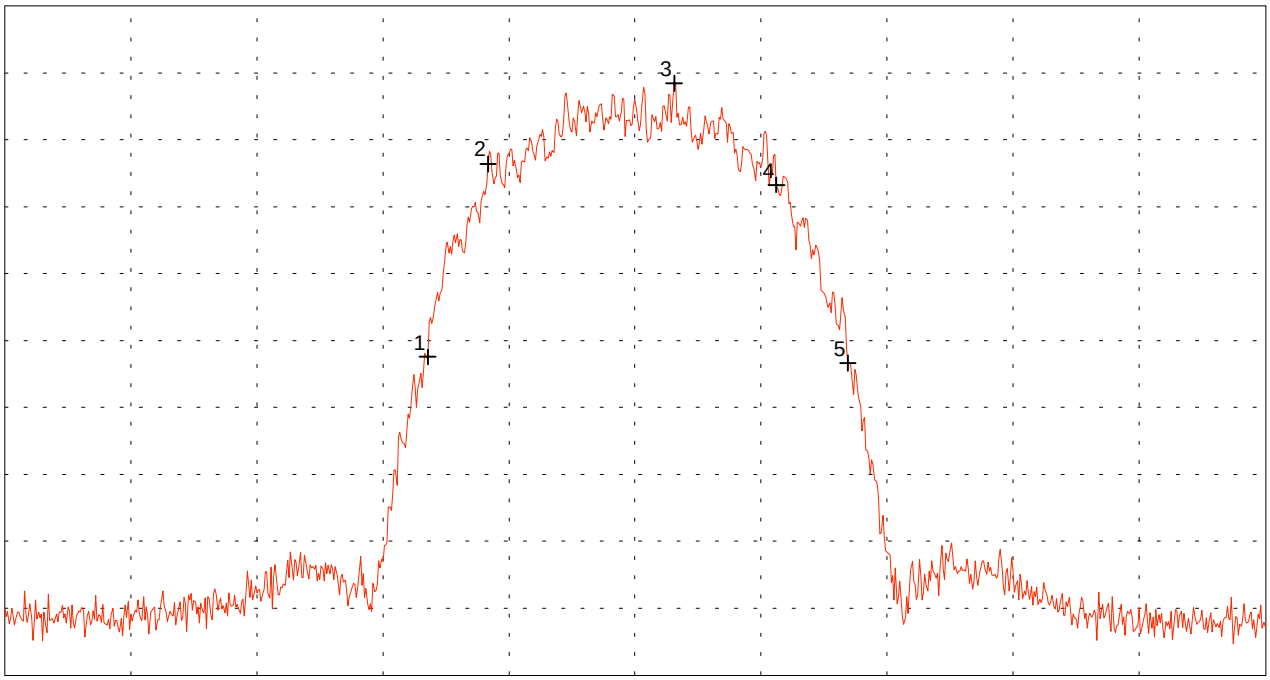
No. 1	2.433556 GHz	-15.79 dBm
No. 2	2.436889 GHz	-2.27 dBm
No. 3	2.441278 GHz	4.54 dBm
No. 4	2.447056 GHz	-2.30 dBm
No. 5	2.450444 GHz	-16.07 dBm

Tested by: Rainer Heller	Project-No.: 56305-10552-1
Date: 08/05/2001	

Minimum bandwidth (conducted) acc. to FCC Part 15 Subpart C

Model: PC24E-11-FC/R	Mode: - FCC test setup - supply voltage 115 V AC - RF-modem mounted in notebook AT&T Globalyst 200 via PC-card extender Sycard PCCextend 50A - shielding of PC-card extender improved - operating with bit rate 11 Mbps - TX mode with f = 2.462 GHz Tested on: antenna connector Delta f (-6 dB points) = 11.44 MHz Result: Test passed Note: -20 dB points for information only!
Serial No.: 01UT33300016	
Applicant: Agere Systems Nederland B.V.	

Ref.Level 10 dBm ATT 35 dB Ref. Offset 21 dB
5 dB/Div.



Start 2.437 GHz Stop 2.487 GHz
RBW 100 kHz VBW 100 kHz SWP 20 ms

Multi Marker List

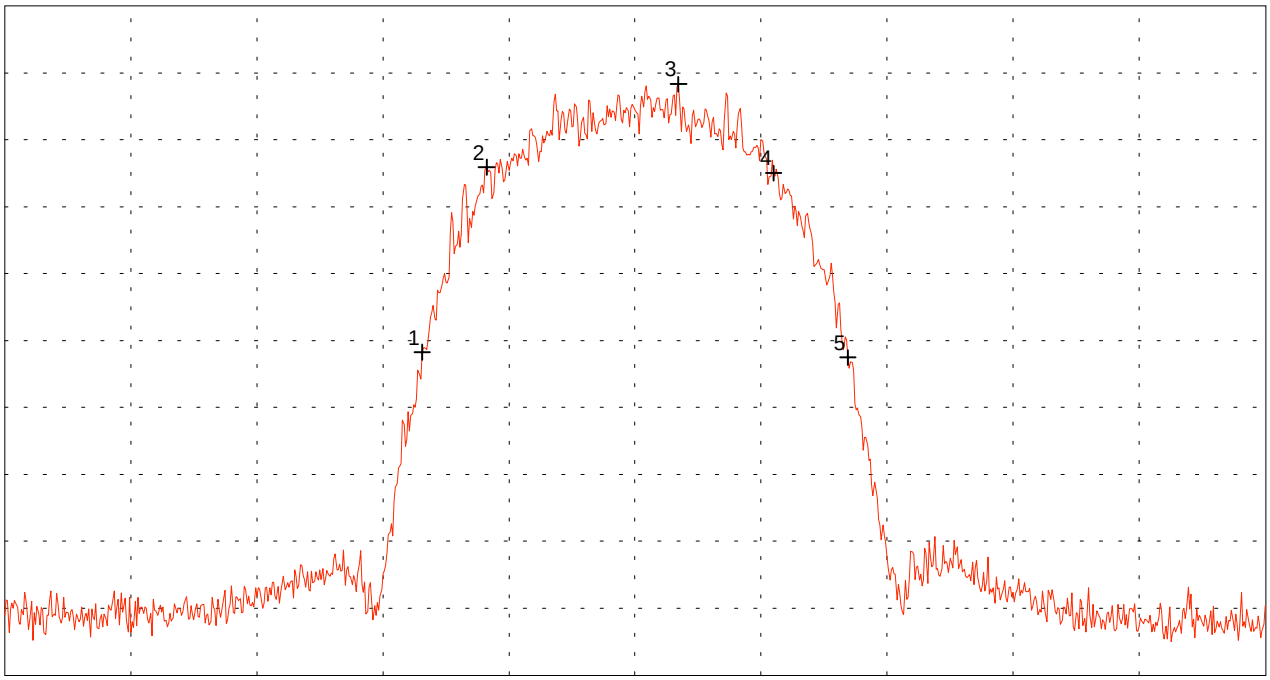
No. 1	2.453778 GHz	-16.23 dBm
No. 2	2.456167 GHz	-1.81 dBm
No. 3	2.463556 GHz	4.22 dBm
No. 4	2.467611 GHz	-3.38 dBm
No. 5	2.470444 GHz	-16.69 dBm

Tested by: Rainer Heller	Project-No.: 56305-10552-1
Date: 08/05/2001	

Minimum bandwidth (conducted) acc. to FCC Part 15 Subpart C

Model: PC24E-11-FC/R	Mode: - FCC test setup - supply voltage 115 V AC - RF-modem mounted in notebook AT&T Globalyst 200 via PC-card extender Sycard PCCextend 50A - shielding of PC-card extender improved - operating with bit rate 5.5 Mbps - TX mode with f = 2.462 GHz Tested on: antenna connector Delta f (-6 dB points) = 11.38 MHz Result: Test passed Note: -20 dB points for information only!
Serial No.: 01UT33300016	
Applicant: Agere Systems Nederland B.V.	

Ref.Level 10 dBm ATT 35 dB Ref. Offset 21 dB
5 dB/Div.



Start 2.437 GHz Stop 2.487 GHz
RBW 100 kHz VBW 100 kHz SWP 20 ms

Multi Marker List

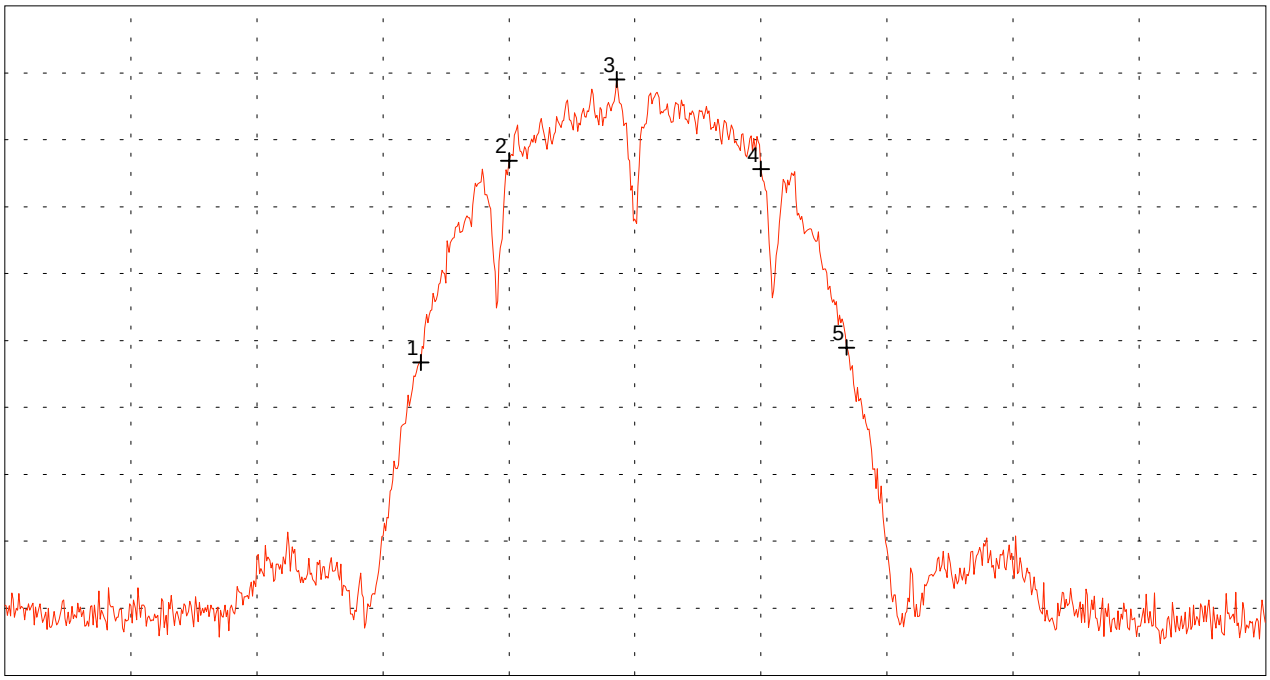
No. 1	2.453556 GHz	-15.88 dBm
No. 2	2.456111 GHz	-2.05 dBm
No. 3	2.463722 GHz	4.17 dBm
No. 4	2.467500 GHz	-2.49 dBm
No. 5	2.470444 GHz	-16.27 dBm

Tested by: Rainer Heller	Project-No.: 56305-10552-1
Date: 08/05/2001	Page 37 of 157 Pages

Minimum bandwidth (conducted) acc. to FCC Part 15 Subpart C

Model: PC24E-11-FC/R	Mode: - FCC test setup - supply voltage 115 V AC - RF-modem mounted in notebook AT&T Globalyst 200 via PC-card extender Sycard PCCextend 50A - shielding of PC-card extender improved - operating with bit rate 2 Mbps - TX mode with f = 2.462 GHz Tested on: antenna connector Delta f (-6 dB points) = 10.00 MHz Result: Test passed Note: -20 dB points for information only!
Serial No.: 01UT33300016	
Applicant: Agere Systems Nederland B.V.	

Ref.Level 10 dBm ATT 35 dB Ref. Offset 21 dB
5 dB/Div.



Start 2.437 GHz Stop 2.487 GHz
RBW 100 kHz VBW 100 kHz SWP 20 ms

Multi Marker List

No. 1	2.453500 GHz	-16.64 dBm
No. 2	2.457000 GHz	-1.56 dBm
No. 3	2.461278 GHz	4.51 dBm
No. 4	2.467000 GHz	-2.18 dBm
No. 5	2.470389 GHz	-15.53 dBm

Tested by: Rainer Heller	Project-No.: 56305-10552-1
Date: 08/05/2001	

Maximum Peak Output Power
according to FCC Part 15 Subpart C, §15.247b

Model: PC24E-11-FC/R
Type: RF-modem for wireless LAN
Serial No.: 01UT33300016
Applicant: Agere Systems Nederland B.V.
Date of test: 09/05/2001
Operator: R. Heller

Mode:
- FCC test setup
- supply voltage 115 V AC
- RF-modem mounted in notebook AT&T Globalyst 200 via PC-card extender Sycard PCCextend 50A
- shielding of PC-card extender improved

- TX mode

Tested on: Antenna connector

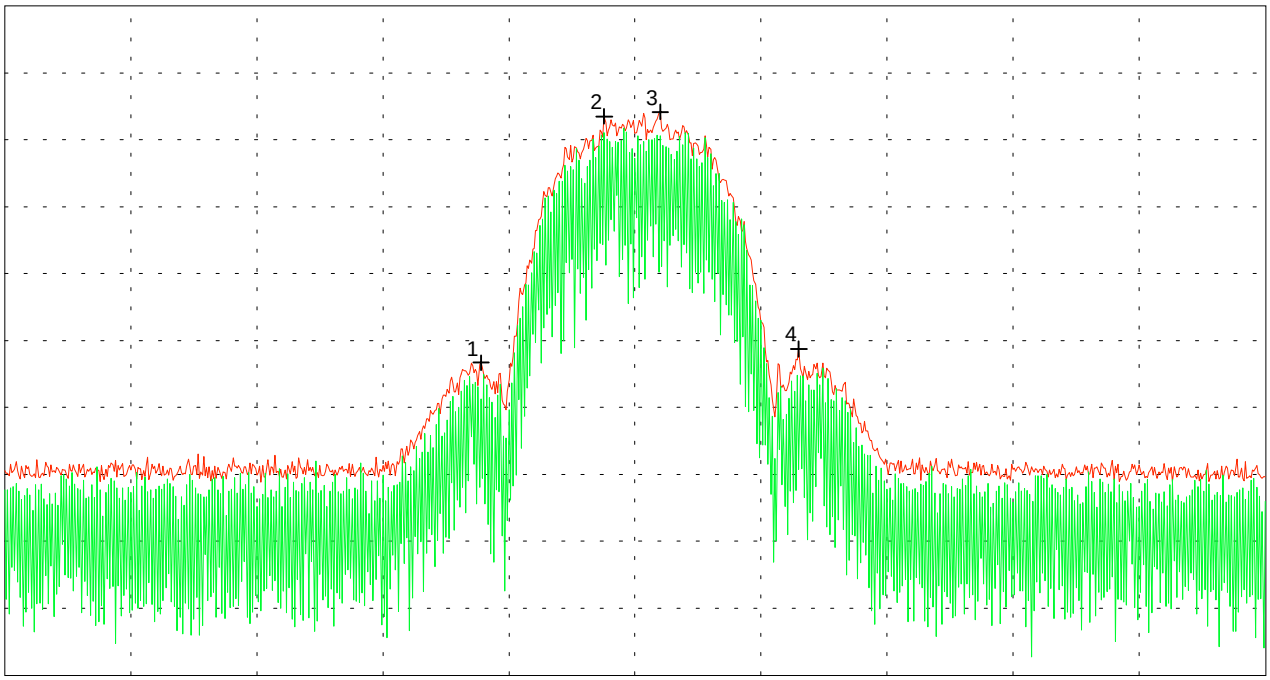
Selected bit rate	Operating frequency [GHz]	Power meter reading [dBm]	Correction-factor [dB]	Output power [dBm]	Limit [dBm]
11 Mbps	2.412	13.6	1.1	14.7	30
	2.442	13.2	1.1	14.3	30
	2.462	13.1	1.1	14.2	30
5.5 Mbps	2.412	13.6	1.1	14.7	30
	2.442	13.2	1.1	14.3	30
	2.462	13.1	1.1	14.2	30
2 Mbps	2.412	13.5	1.1	14.6	30
	2.442	13.1	1.1	14.2	30
	2.462	13.0	1.1	14.1	30

Result: The limit is kept

Maximum peak output power (conducted) acc. to FCC Part 15 Subpart C

Model: PC24E-11-FC/R	Mode: - FCC test setup - supply voltage 115 V AC - RF-modem mounted in notebook AT&T Globalyst 200 via PC-card extender Sycard PCCextend 50A - shielding of PC-card extender improved - operating with bit rate 11 Mbps - TX mode with f = 2.412 GHz Tested on: antenna connector Note: for information only!
Serial No.: 01UT33300016	
Applicant: Agere Systems Nederland B.V.	

Ref.Level 20 dBm ATT 20 dB Ref. Offset 21 dB
10 dB/Div.



Start 2.362 GHz Stop 2.462 GHz
RBW 100 kHz VBW 100 kHz SWP 40 ms

Multi Marker List

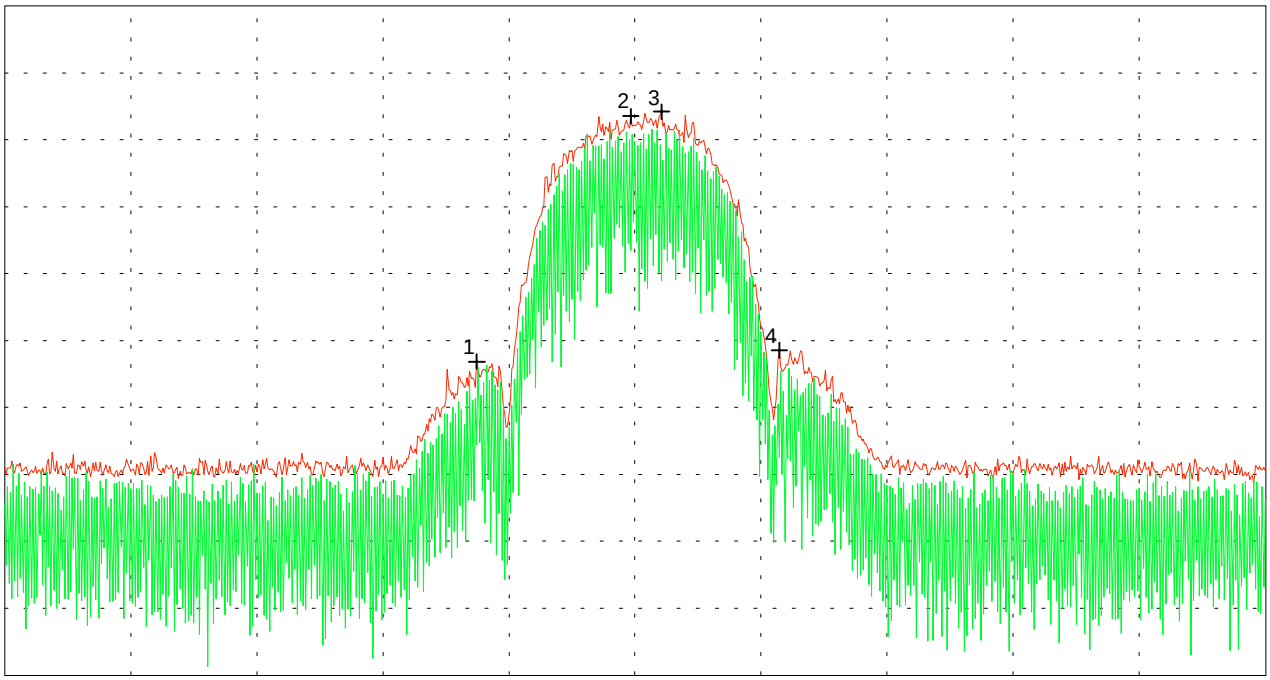
No. 1	2.399778 GHz	-33.32 dBm
No. 2	2.409556 GHz	3.50 dBm
No. 3	2.414000 GHz	4.16 dBm
No. 4	2.425000 GHz	-31.29 dBm

Tested by: Rainer Heller	Project-No.: 56305-10552-1
Date: 08/05/2001	

Maximum peak output power (conducted) acc. to FCC Part 15 Subpart C

Model: PC24E-11-FC/R	Mode: - FCC test setup - supply voltage 115 V AC - RF-modem mounted in notebook AT&T Globalyst 200 via PC-card extender Sycard PCCextend 50A - shielding of PC-card extender improved - operating with bit rate 5.5 Mbps - TX mode with f = 2.412 GHz Tested on: antenna connector Note: for information only!
Serial No.: 01UT33300016	
Applicant: Agere Systems Nederland B.V.	

Ref.Level 20 dBm ATT 20 dB Ref. Offset 21 dB
10 dB/Div.



Start 2.362 GHz Stop 2.462 GHz
RBW 100 kHz VBW 100 kHz SWP 40 ms

Multi Marker List

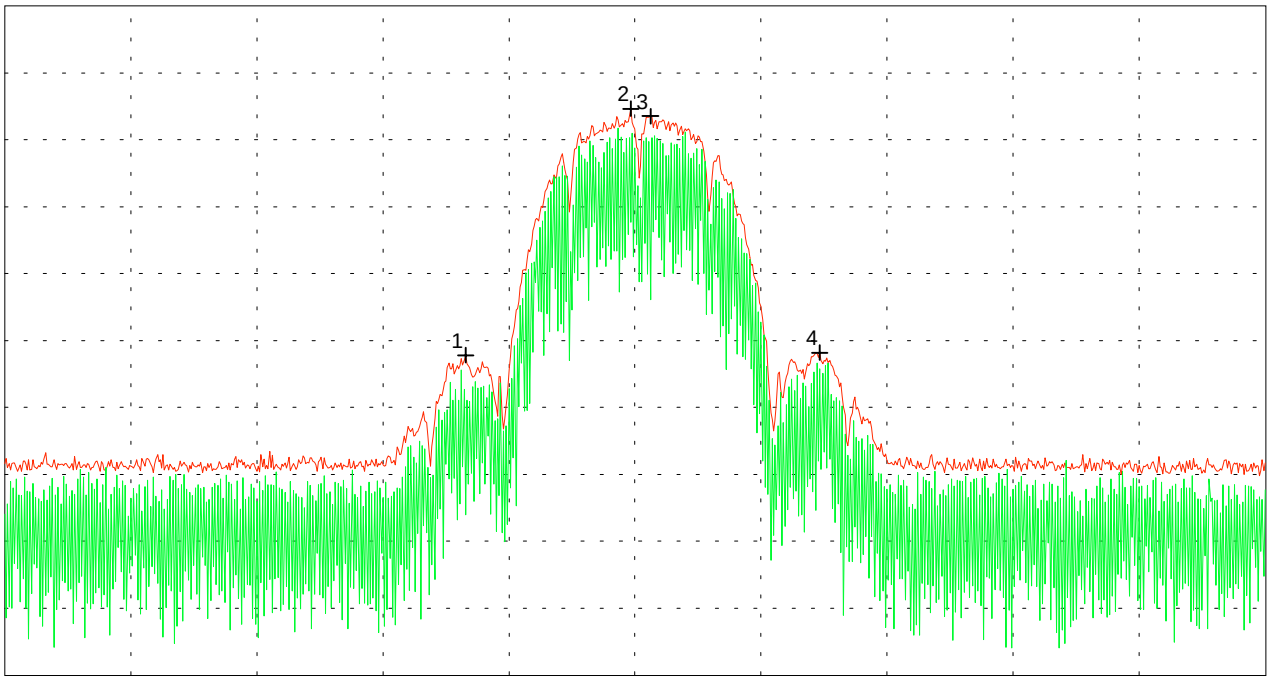
No. 1	2.399444 GHz	-33.17 dBm
No. 2	2.411667 GHz	3.55 dBm
No. 3	2.414111 GHz	4.19 dBm
No. 4	2.423444 GHz	-31.47 dBm

Tested by: Rainer Heller	Project-No.: 56305-10552-1
Date: 08/05/2001	Page 41 of 157 Pages

Maximum peak output power (conducted) acc. to FCC Part 15 Subpart C

Model: PC24E-11-FC/R	Mode: - FCC test setup - supply voltage 115 V AC - RF-modem mounted in notebook AT&T Globalyst 200 via PC-card extender Sycard PCCextend 50A - shielding of PC-card extender improved - operating with bit rate 2 Mbps - TX mode with f = 2.412 GHz Tested on: antenna connector Note: for information only!
Serial No.: 01UT33300016	
Applicant: Agere Systems Nederland B.V.	

Ref.Level 20 dBm ATT 20 dB Ref. Offset 21 dB
10 dB/Div.



Start 2.362 GHz Stop 2.462 GHz
RBW 100 kHz VBW 100 kHz SWP 40 ms

Multi Marker List

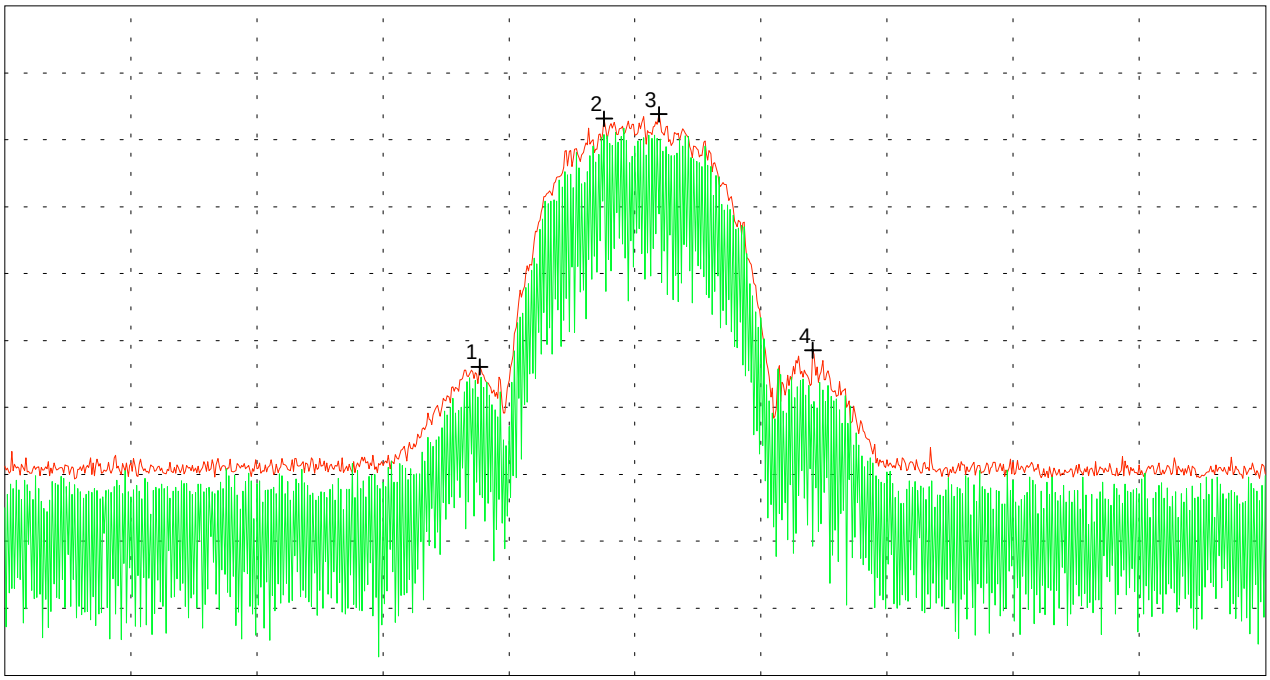
No. 1	2.398556 GHz	-32.18 dBm
No. 2	2.411667 GHz	4.64 dBm
No. 3	2.413222 GHz	3.53 dBm
No. 4	2.426667 GHz	-31.82 dBm

Tested by: Rainer Heller	Project-No.: 56305-10552-1
Date: 08/05/2001	Page 42 of 157 Pages

Maximum peak output power (conducted) acc. to FCC Part 15 Subpart C

Model: PC24E-11-FC/R	Mode: - FCC test setup - supply voltage 115 V AC - RF-modem mounted in notebook AT&T Globalyst 200 via PC-card extender Sycard PCCextend 50A - shielding of PC-card extender improved - operating with bit rate 11 Mbps - TX mode with f = 2.442 GHz Tested on: antenna connector Note: for information only!
Serial No.: 01UT33300016	
Applicant: Agere Systems Nederland B.V.	

Ref.Level 20 dBm ATT 20 dB Ref. Offset 21 dB
10 dB/Div.



Start 2.392 GHz Stop 2.492 GHz
RBW 100 kHz VBW 100 kHz SWP 40 ms

Multi Marker List

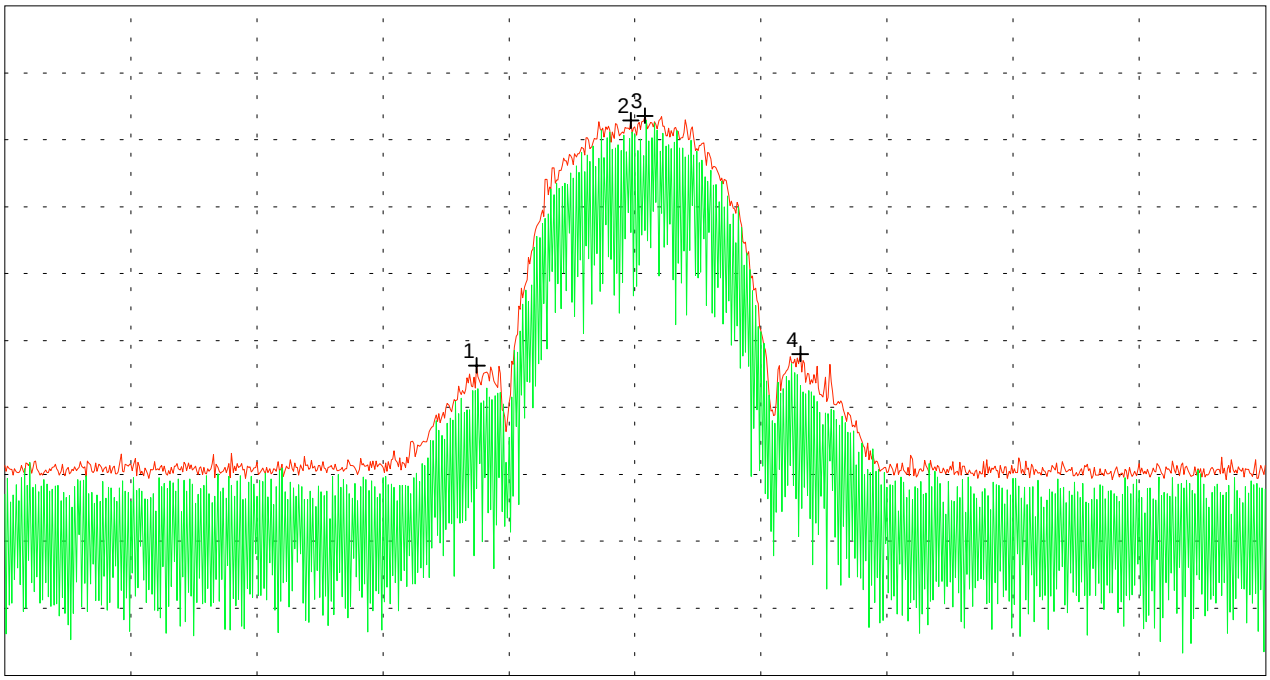
No. 1	2.429667 GHz	-33.95 dBm
No. 2	2.439556 GHz	3.15 dBm
No. 3	2.443889 GHz	3.81 dBm
No. 4	2.456111 GHz	-31.47 dBm

Tested by: Rainer Heller	Project-No.: 56305-10552-1
Date: 08/05/2001	Page 43 of 157 Pages

Maximum peak output power (conducted) acc. to FCC Part 15 Subpart C

Model: PC24E-11-FC/R	Mode: - FCC test setup - supply voltage 115 V AC - RF-modem mounted in notebook AT&T Globalyst 200 via PC-card extender Sycard PCCextend 50A - shielding of PC-card extender improved - operating with bit rate 5.5 Mbps - TX mode with f = 2.442 GHz Tested on: antenna connector Note: for information only!
Serial No.: 01UT33300016	
Applicant: Agere Systems Nederland B.V.	

Ref.Level 20 dBm ATT 20 dB Ref. Offset 21 dB
10 dB/Div.



Start 2.392 GHz Stop 2.492 GHz
RBW 100 kHz VBW 100 kHz SWP 40 ms

Multi Marker List

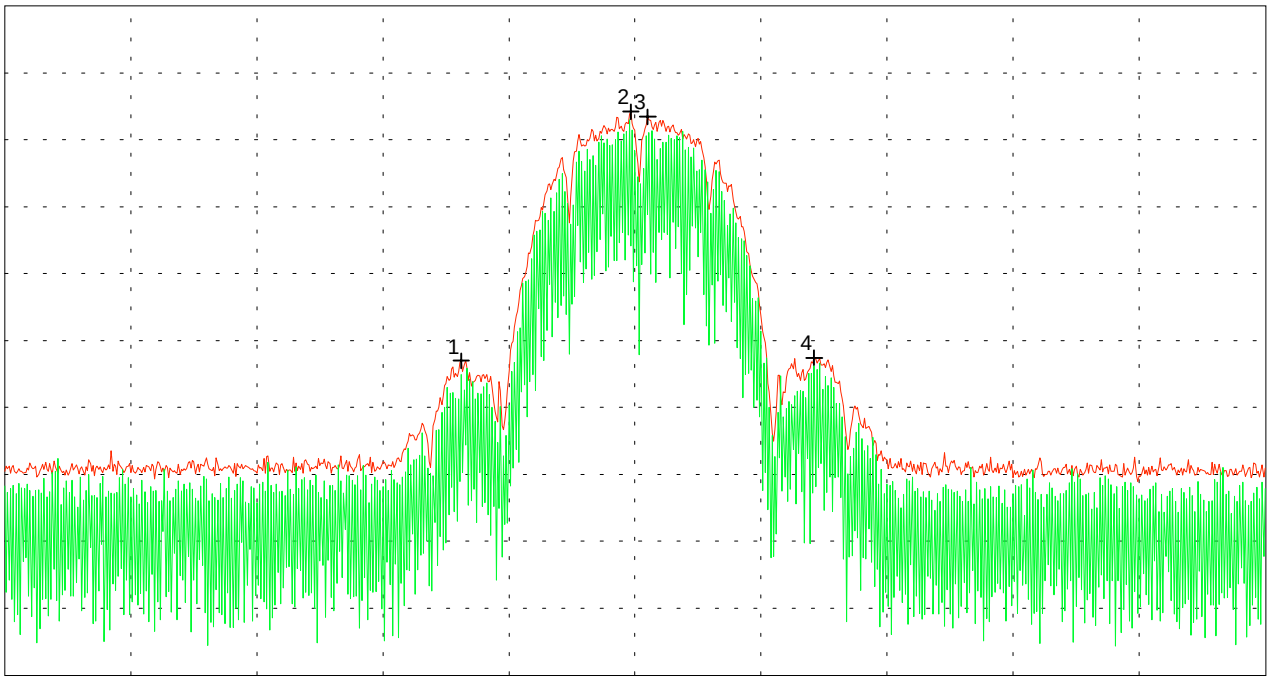
No. 1	2.429444 GHz	-33.73 dBm
No. 2	2.441667 GHz	2.89 dBm
No. 3	2.442778 GHz	3.58 dBm
No. 4	2.455111 GHz	-32.02 dBm

Tested by: Rainer Heller	Project-No.: 56305-10552-1
Date: 08/05/2001	

Maximum peak output power (conducted) acc. to FCC Part 15 Subpart C

Model: PC24E-11-FC/R	Mode: - FCC test setup - supply voltage 115 V AC - RF-modem mounted in notebook AT&T Globalyst 200 via PC-card extender Sycard PCCextend 50A - shielding of PC-card extender improved - operating with bit rate 2 Mbps - TX mode with f = 2.442 GHz Tested on: antenna connector Note: for information only!
Serial No.: 01UT33300016	
Applicant: Agere Systems Nederland B.V.	

Ref.Level 20 dBm ATT 20 dB Ref. Offset 21 dB
10 dB/Div.



Start 2.392 GHz Stop 2.492 GHz
RBW 100 kHz VBW 100 kHz SWP 40 ms

Multi Marker List

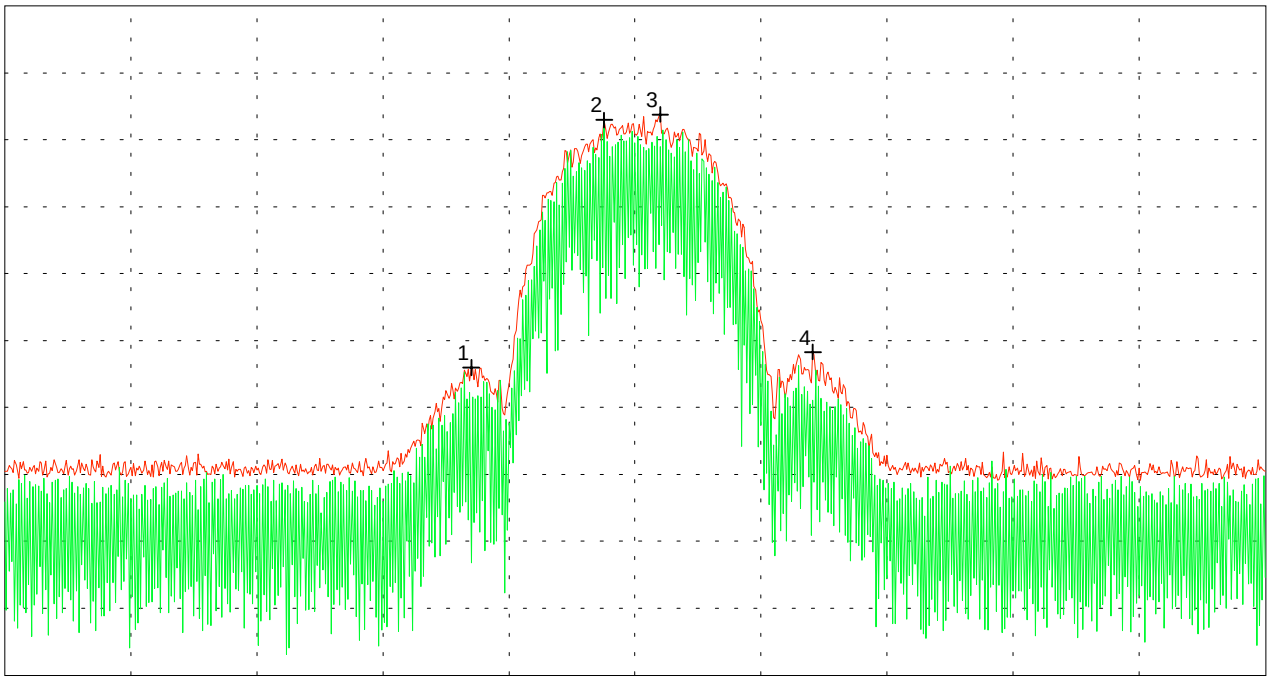
No. 1	2.428222 GHz	-33.04 dBm
No. 2	2.441667 GHz	4.21 dBm
No. 3	2.443000 GHz	3.45 dBm
No. 4	2.456222 GHz	-32.58 dBm

Tested by: Rainer Heller	Project-No.: 56305-10552-1
Date: 08/05/2001	Page 45 of 157 Pages

Maximum peak output power (conducted) acc. to FCC Part 15 Subpart C

Model: PC24E-11-FC/R	Mode: - FCC test setup - supply voltage 115 V AC - RF-modem mounted in notebook AT&T Globalyst 200 via PC-card extender Sycard PCCextend 50A - shielding of PC-card extender improved - operating with bit rate 11 Mbps - TX mode with f = 2.462 GHz Tested on: antenna connector Note: for information only!
Serial No.: 01UT33300016	
Applicant: Agere Systems Nederland B.V.	

Ref.Level 20 dBm ATT 20 dB Ref. Offset 21 dB
10 dB/Div.



Start 2.412 GHz Stop 2.512 GHz
RBW 100 kHz VBW 100 kHz SWP 40 ms

Multi Marker List

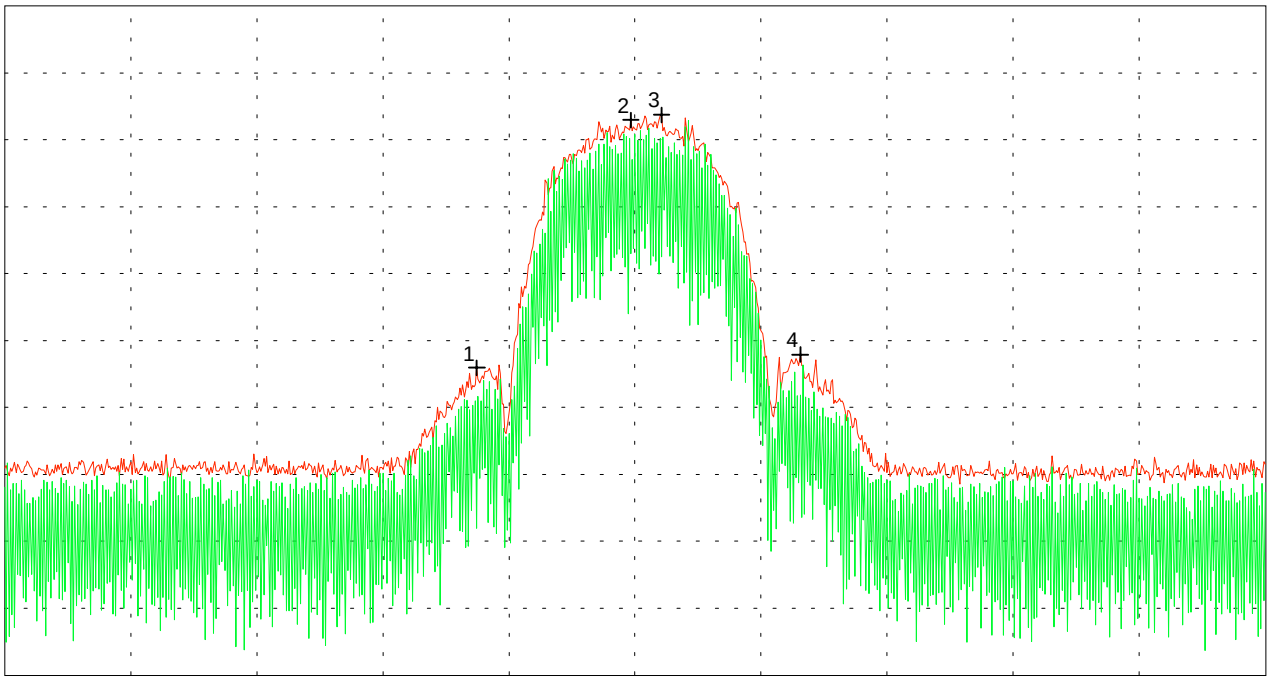
No. 1	2.449000 GHz	-34.06 dBm
No. 2	2.459556 GHz	2.97 dBm
No. 3	2.464000 GHz	3.78 dBm
No. 4	2.476111 GHz	-31.72 dBm

Tested by: Rainer Heller	Project-No.: 56305-10552-1
Date: 08/05/2001	Page 46 of 157 Pages

Maximum peak output power (conducted) acc. to FCC Part 15 Subpart C

Model: PC24E-11-FC/R	Mode: - FCC test setup - supply voltage 115 V AC - RF-modem mounted in notebook AT&T Globalyst 200 via PC-card extender Sycard PCCextend 50A - shielding of PC-card extender improved - operating with bit rate 5.5 Mbps - TX mode with f = 2.462 GHz Tested on: antenna connector Note: for information only!
Serial No.: 01UT33300016	
Applicant: Agere Systems Nederland B.V.	

Ref.Level 20 dBm ATT 20 dB Ref. Offset 21 dB
10 dB/Div.



Start 2.412 GHz Stop 2.512 GHz
RBW 100 kHz VBW 100 kHz SWP 40 ms

Multi Marker List

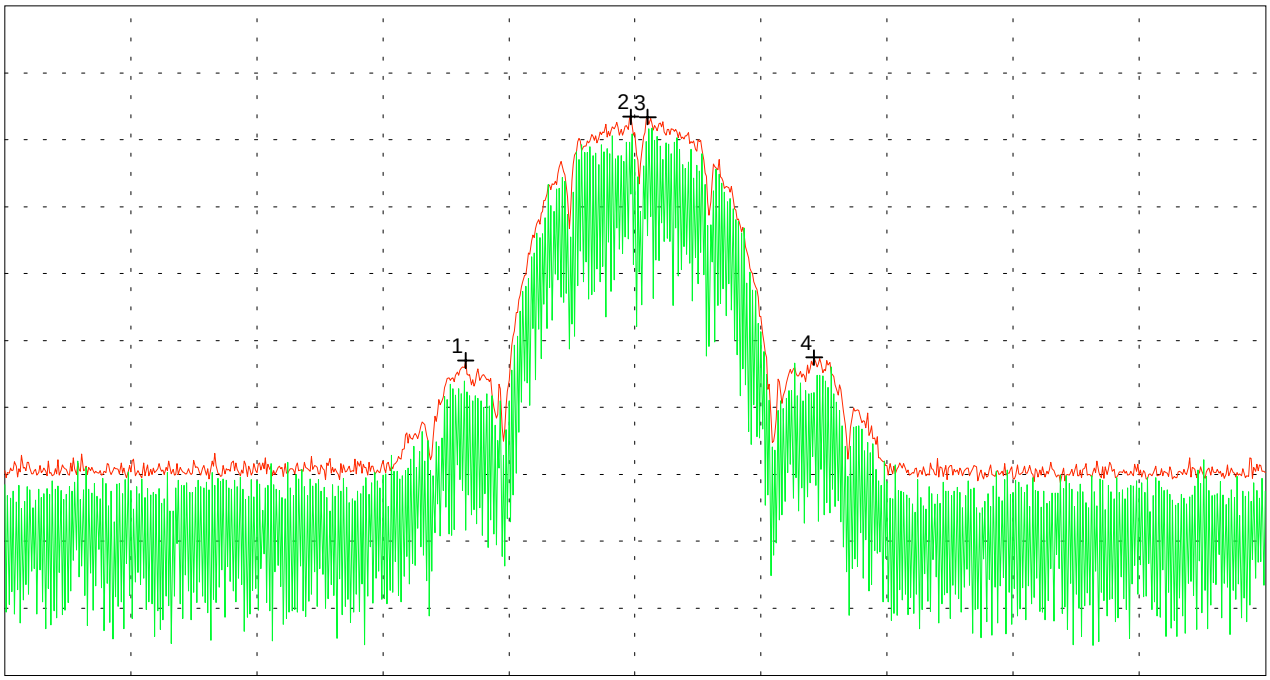
No. 1	2.449444 GHz	-34.08 dBm
No. 2	2.461667 GHz	2.94 dBm
No. 3	2.464111 GHz	3.73 dBm
No. 4	2.475111 GHz	-32.10 dBm

Tested by: Rainer Heller	Project-No.: 56305-10552-1
Date: 08/05/2001	Page 47 of 157 Pages

Maximum peak output power (conducted) acc. to FCC Part 15 Subpart C

Model: PC24E-11-FC/R	Mode: - FCC test setup - supply voltage 115 V AC - RF-modem mounted in notebook AT&T Globalyst 200 via PC-card extender Sycard PCCextend 50A - shielding of PC-card extender improved - operating with bit rate 2 Mbps - TX mode with f = 2.462 GHz Tested on: antenna connector Note: for information only!
Serial No.: 01UT33300016	
Applicant: Agere Systems Nederland B.V.	

Ref.Level 20 dBm ATT 20 dB Ref. Offset 21 dB
10 dB/Div.



Start 2.412 GHz Stop 2.512 GHz
RBW 100 kHz VBW 100 kHz SWP 40 ms

Multi Marker List

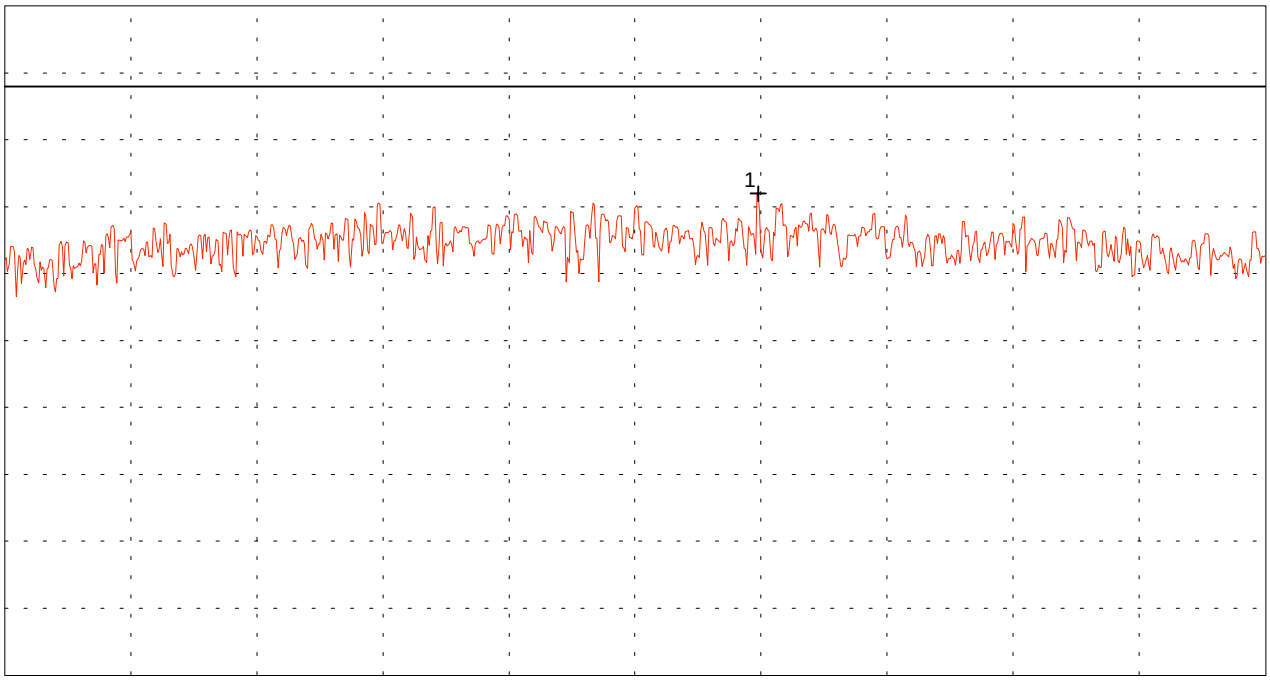
No. 1	2.448556 GHz	-32.99 dBm
No. 2	2.461667 GHz	3.45 dBm
No. 3	2.463000 GHz	3.40 dBm
No. 4	2.476222 GHz	-32.56 dBm

Tested by: Rainer Heller	Project-No.: 56305-10552-1
Date: 08/05/2001	Page 48 of 157 Pages

Peak power density (conducted) acc. to FCC Part 15 Subpart C

Model: PC24E-11-FC/R	Mode: - FCC test setup - supply voltage 115 V AC - RF-modem mounted in notebook AT&T Globalyst 200 via PC-card extender Sycard PCCextend 50A - shielding of PC-card extender improved - operating with bit rate 11 Mbps - TX mode with f = 2.412 GHz Tested on: antenna connector Result: Test passed
Serial No.: 01UT33300016	
Applicant: Agere Systems Nederland B.V.	

Ref.Level 20 dBm ATT 20 dB Ref. Offset 21 dB
10 dB/Div.



Start 2.407 GHz Stop 2.417 GHz
RBW 3 kHz VBW 100 kHz SWP 3.40 s

Multi Marker List

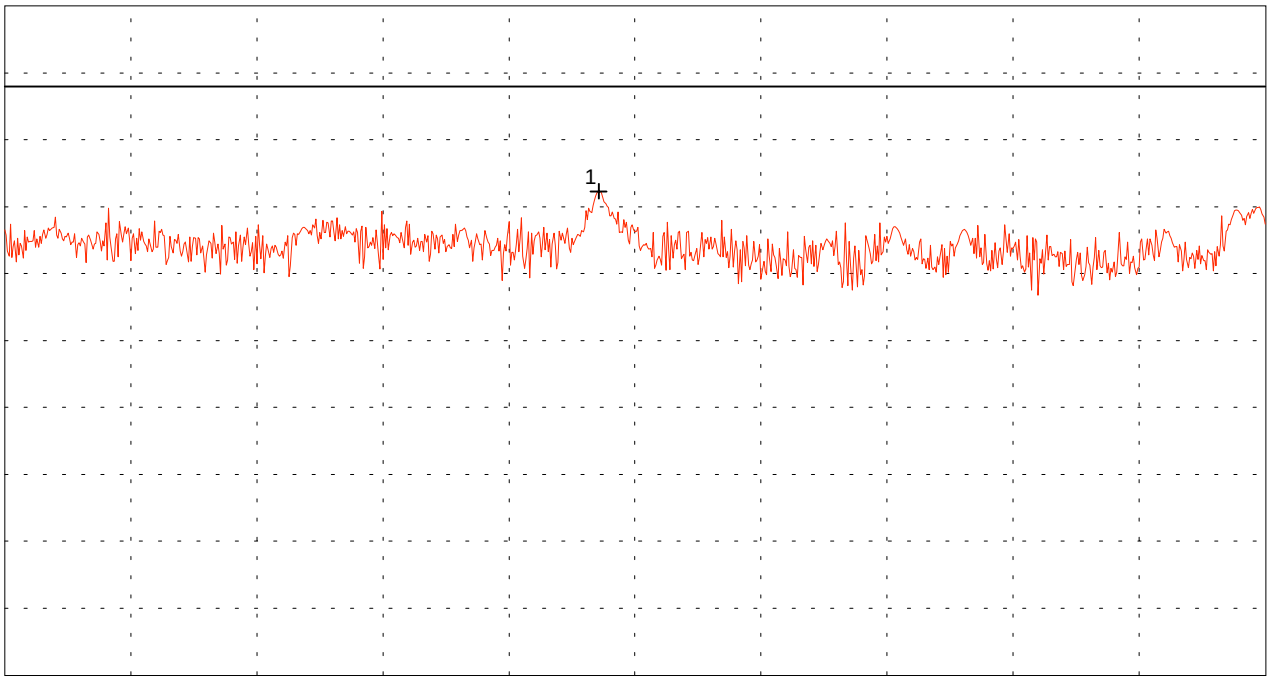
No. 1 2.412978 GHz -8.05 dBm

Tested by: Rainer Heller	Project-No.: 56305-10552-1
Date: 08/05/2001	

Peak power density (conducted) acc. to FCC Part 15 Subpart C

Model: PC24E-11-FC/R	Mode: - FCC test setup - supply voltage 115 V AC - RF-modem mounted in notebook AT&T Globalyst 200 via PC-card extender Sycard PCCextend 50A - shielding of PC-card extender improved - operating with bit rate 11 Mbps - TX mode with f = 2.412 GHz Tested on: antenna connector Result: Test passed
Serial No.: 01UT33300016	
Applicant: Agere Systems Nederland B.V.	

Ref.Level 20 dBm ATT 20 dB Ref. Offset 21 dB
10 dB/Div.



Start 2.412828 GHz Stop 2.413128 GHz
RBW 3 kHz VBW 100 kHz SWP 100 s

Multi Marker List

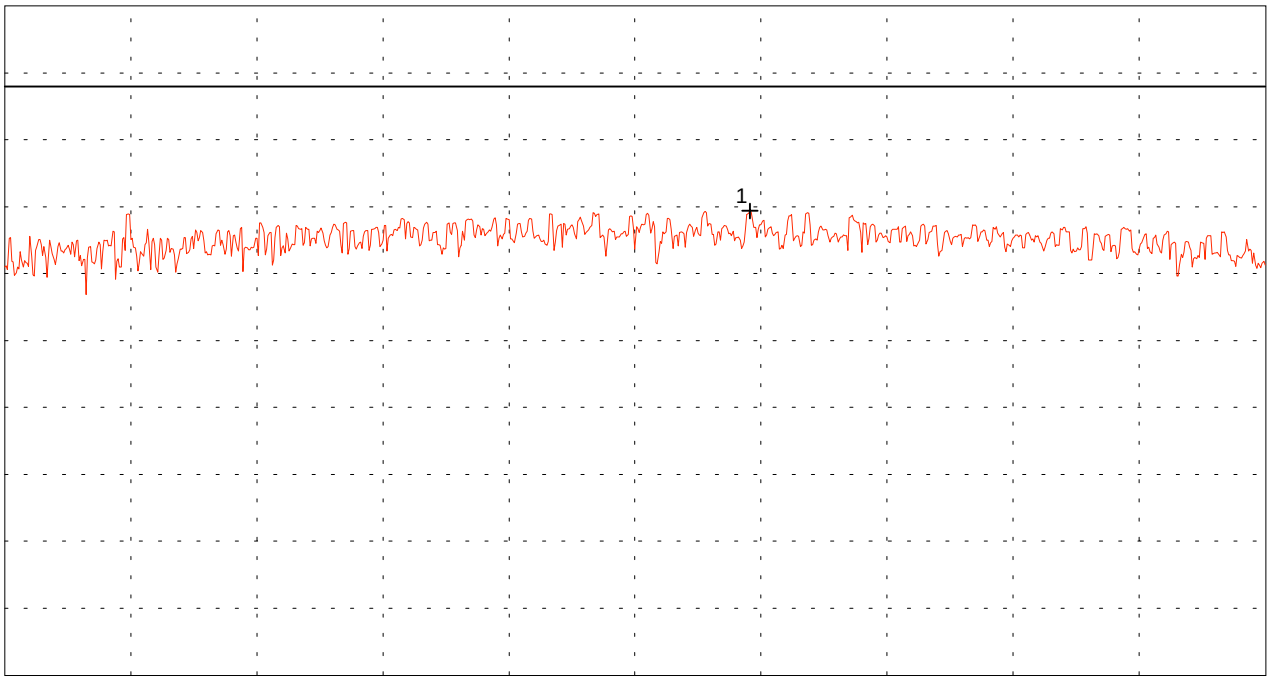
No. 1 2.412969 GHz -7.70 dBm

Tested by: Rainer Heller	Project-No.: 56305-10552-1
Date: 08/05/2001	Page 50 of 157 Pages

Peak power density (conducted) acc. to FCC Part 15 Subpart C

Model: PC24E-11-FC/R	Mode: - FCC test setup - supply voltage 115 V AC - RF-modem mounted in notebook AT&T Globalyst 200 via PC-card extender Sycard PCCextend 50A - shielding of PC-card extender improved - operating with bit rate 5.5 Mbps - TX mode with f = 2.412 GHz Tested on: antenna connector Note: Prescan for zooming into maximum!
Serial No.: 01UT33300016	
Applicant: Agere Systems Nederland B.V.	

Ref.Level 20 dBm ATT 20 dB Ref. Offset 21 dB
10 dB/Div.



Start 2.407 GHz Stop 2.417 GHz
RBW 3 kHz VBW 100 kHz SWP 3.40 s

Multi Marker List

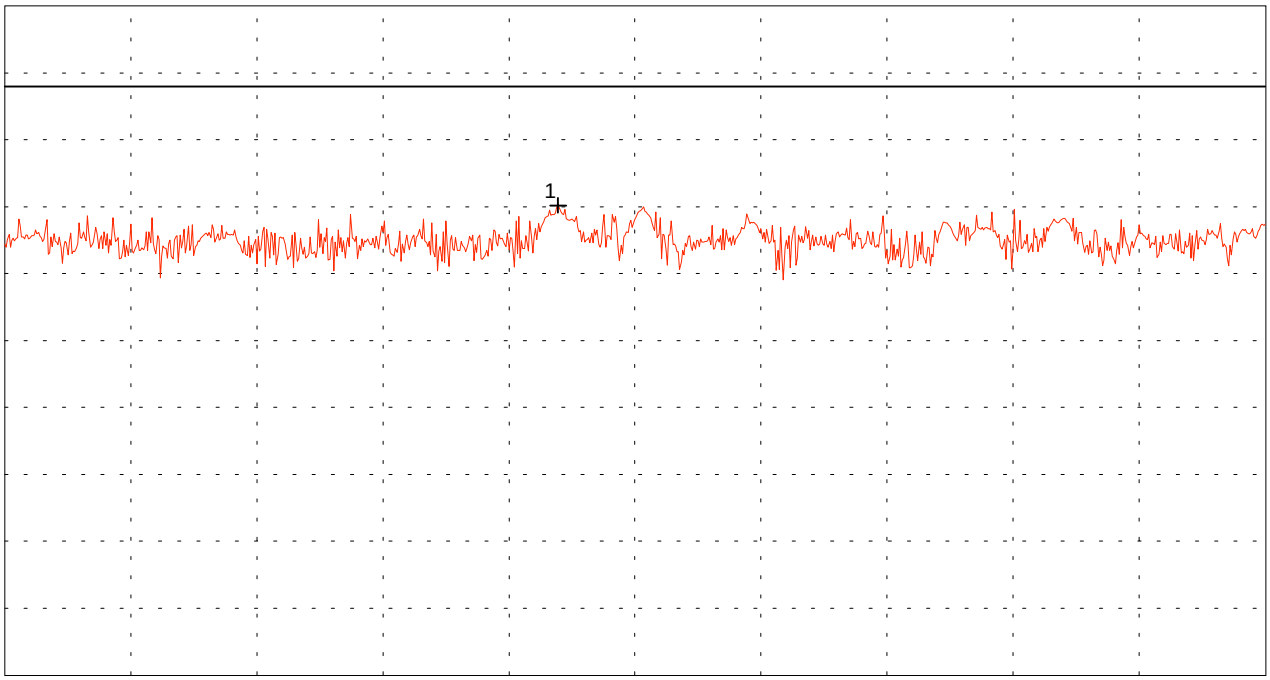
No. 1 2.412911 GHz -10.62 dBm

Tested by: Rainer Heller	Project-No.: 56305-10552-1
Date: 08/05/2001	Page 51 of 157 Pages

Peak power density (conducted) acc. to FCC Part 15 Subpart C

Model: PC24E-11-FC/R	Mode: - FCC test setup - supply voltage 115 V AC - RF-modem mounted in notebook AT&T Globalyst 200 via PC-card extender Sycard PCCextend 50A - shielding of PC-card extender improved - operating with bit rate 5.5 Mbps - TX mode with f = 2.412 GHz Tested on: antenna connector Result: Test passed
Serial No.: 01UT33300016	
Applicant: Agere Systems Nederland B.V.	

Ref.Level 20 dBm ATT 20 dB Ref. Offset 21 dB
10 dB/Div.



Start 2.412761 GHz Stop 2.413061 GHz
RBW 3 kHz VBW 100 kHz SWP 100 s

Multi Marker List

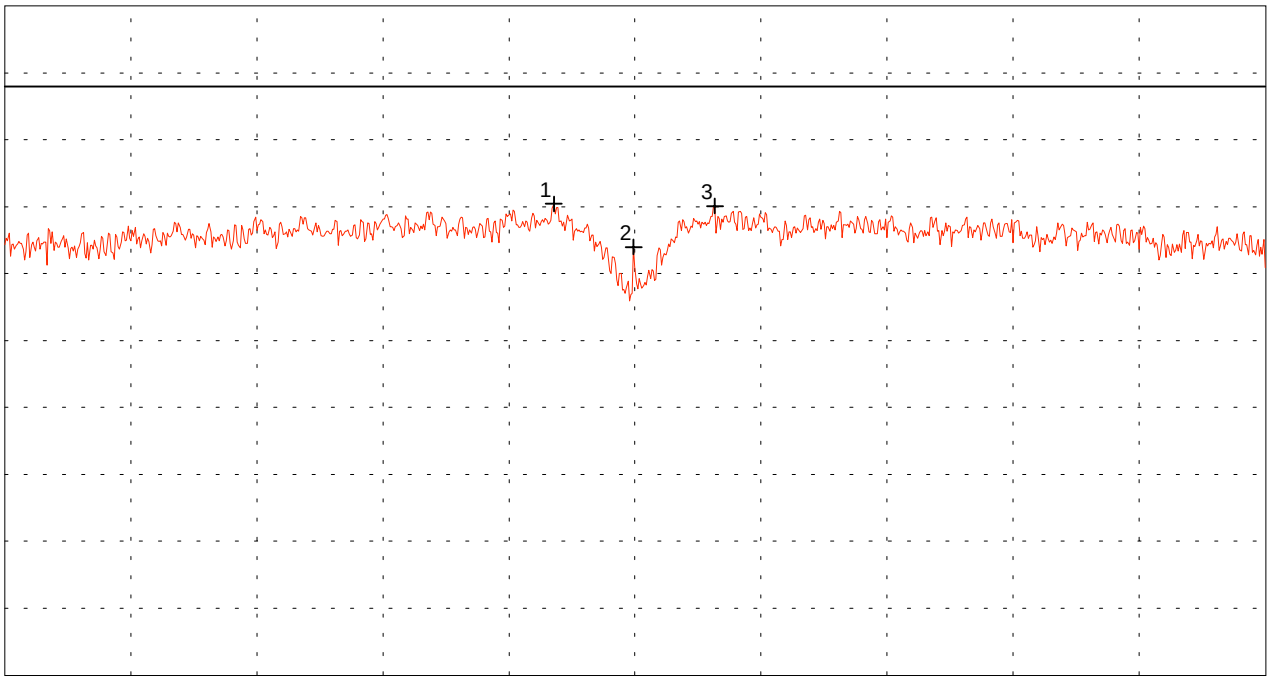
No. 1 2.412893 GHz -9.80 dBm

Tested by: Rainer Heller	Project-No.: 56305-10552-1
Date: 08/05/2001	

Peak power density (conducted) acc. to FCC Part 15 Subpart C

Model: PC24E-11-FC/R	Mode: - FCC test setup - supply voltage 115 V AC - RF-modem mounted in notebook AT&T Globalyst 200 via PC-card extender Sycard PCCextend 50A - shielding of PC-card extender improved - operating with bit rate 2 Mbps - TX mode with f = 2.412 GHz Tested on: antenna connector Note: Prescan for zooming into maximum!
Serial No.: 01UT33300016	
Applicant: Agere Systems Nederland B.V.	

Ref.Level 20 dBm ATT 20 dB Ref. Offset 21 dB
10 dB/Div.



Start 2.407 GHz Stop 2.417 GHz
RBW 3 kHz VBW 100 kHz SWP 3.40 s

Multi Marker List

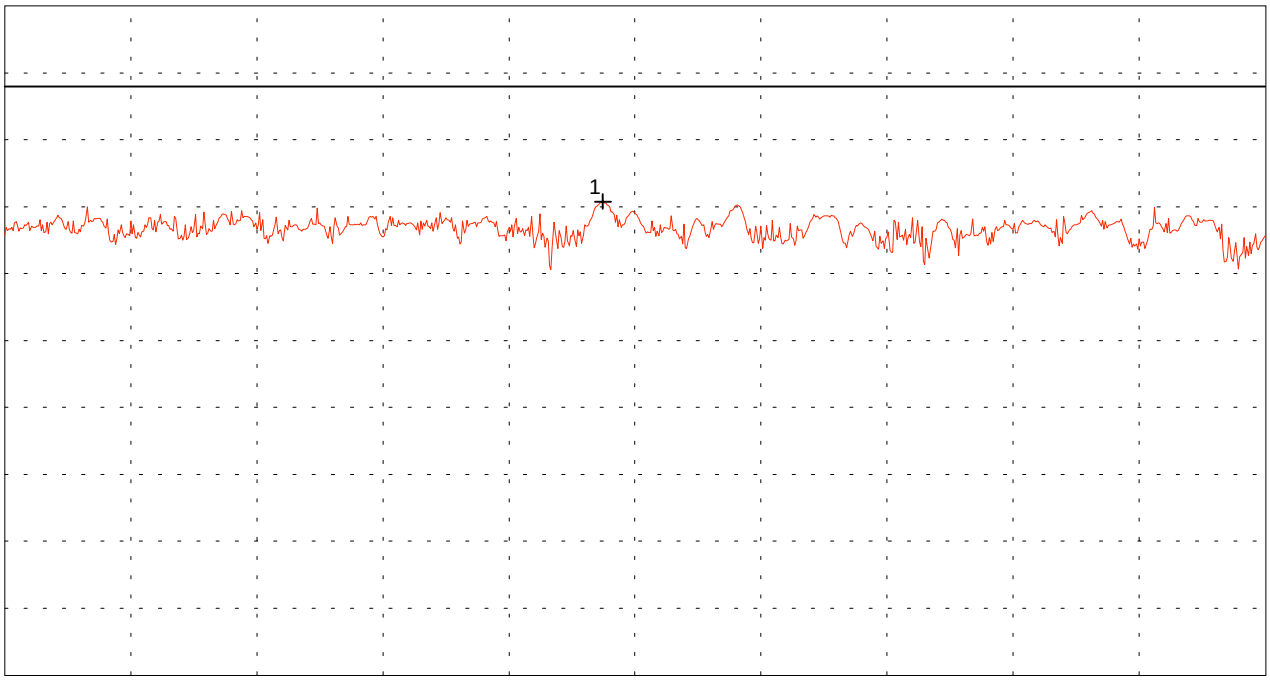
No. 1	2.411356 GHz	-9.60 dBm
No. 2	2.411989 GHz	-16.03 dBm
No. 3	2.412633 GHz	-9.91 dBm

Tested by: Rainer Heller	Project-No.: 56305-10552-1
Date: 08/05/2001	Page 53 of 157 Pages

Peak power density (conducted) acc. to FCC Part 15 Subpart C

Model: PC24E-11-FC/R	Mode: - FCC test setup - supply voltage 115 V AC - RF-modem mounted in notebook AT&T Globalyst 200 via PC-card extender Sycard PCCextend 50A - shielding of PC-card extender improved - operating with bit rate 2 Mbps - TX mode with f = 2.412 GHz Tested on: antenna connector Result: Test passed
Serial No.: 01UT33300016	
Applicant: Agere Systems Nederland B.V.	

Ref.Level 20 dBm ATT 20 dB Ref. Offset 21 dB
10 dB/Div.



Start 2.411206 GHz Stop 2.411506 GHz
RBW 3 kHz VBW 100 kHz SWP 100 s

Multi Marker List

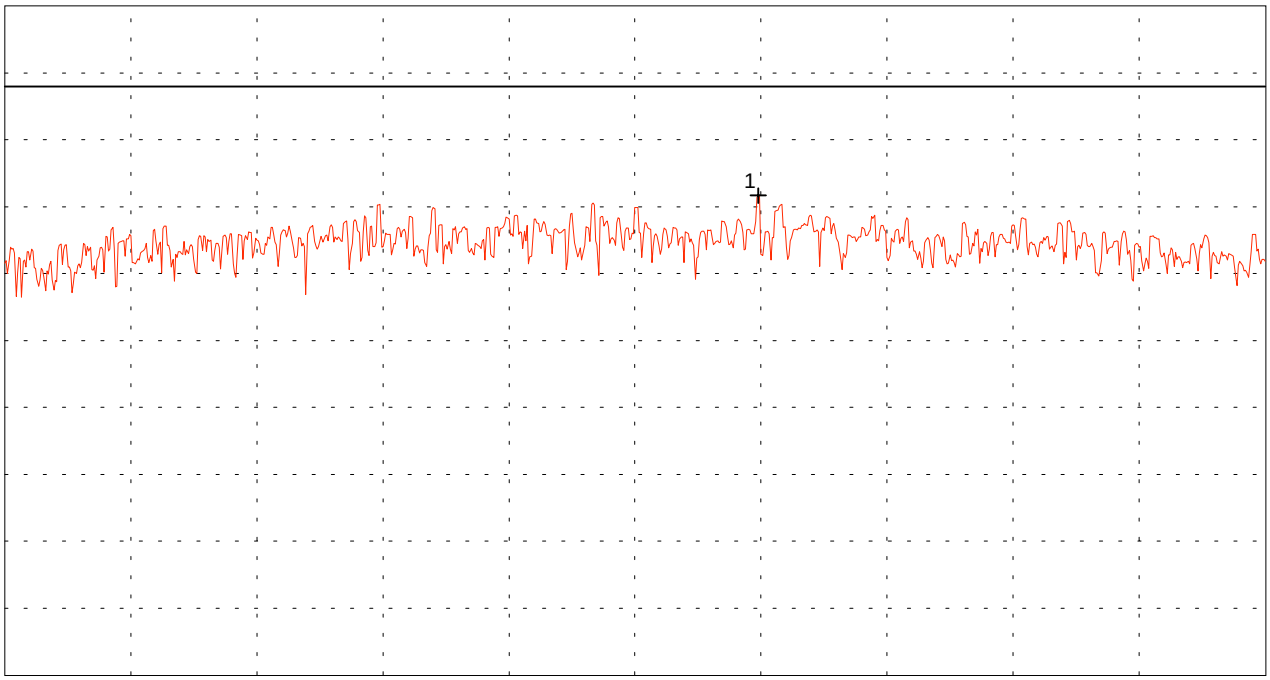
No. 1 2.411348 GHz -9.25 dBm

Tested by: Rainer Heller	Project-No.: 56305-10552-1
Date: 08/05/2001	

Peak power density (conducted) acc. to FCC Part 15 Subpart C

Model: PC24E-11-FC/R	Mode: - FCC test setup - supply voltage 115 V AC - RF-modem mounted in notebook AT&T Globalyst 200 via PC-card extender Sycard PCCextend 50A - shielding of PC-card extender improved - operating with bit rate 11 Mbps - TX mode with f = 2.442 GHz Tested on: antenna connector Note: Prescan for zooming into maximum!
Serial No.: 01UT33300016	
Applicant: Agere Systems Nederland B.V.	

Ref.Level 20 dBm ATT 20 dB Ref. Offset 21 dB
10 dB/Div.



Start 2.437 GHz Stop 2.447 GHz
RBW 3 kHz VBW 100 kHz SWP 3.40 s

Multi Marker List

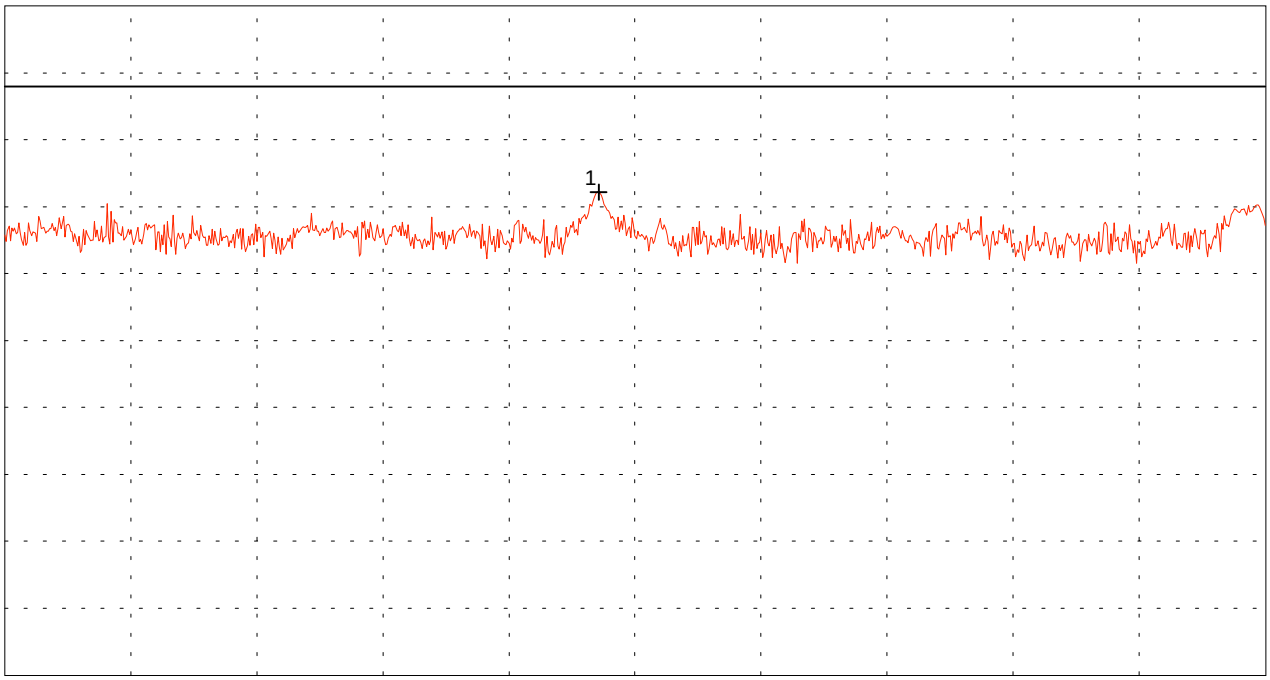
No. 1 2.442978 GHz -8.33 dBm

Tested by: Rainer Heller	Project-No.: 56305-10552-1
Date: 08/05/2001	

Peak power density (conducted) acc. to FCC Part 15 Subpart C

Model: PC24E-11-FC/R	Mode: - FCC test setup - supply voltage 115 V AC - RF-modem mounted in notebook AT&T Globalyst 200 via PC-card extender Sycard PCCextend 50A - shielding of PC-card extender improved - operating with bit rate 11 Mbps - TX mode with f = 2.442 GHz Tested on: antenna connector Result: Test passed
Serial No.: 01UT33300016	
Applicant: Agere Systems Nederland B.V.	

Ref.Level 20 dBm ATT 20 dB Ref. Offset 21 dB
10 dB/Div.



Start 2.442828 GHz Stop 2.443128 GHz
RBW 3 kHz VBW 100 kHz SWP 100 s

Multi Marker List

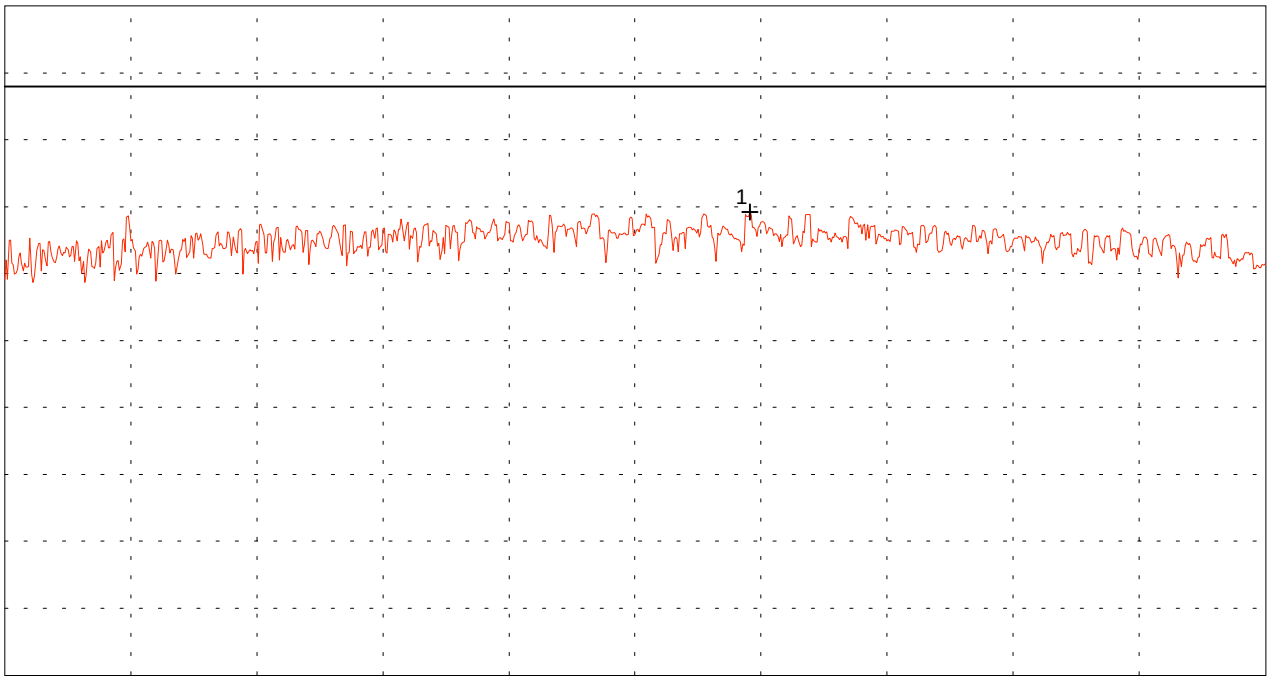
No. 1 2.442969 GHz -7.82 dBm

Tested by: Rainer Heller	Project-No.: 56305-10552-1
Date: 08/05/2001	Page 56 of 157 Pages

Peak power density (conducted) acc. to FCC Part 15 Subpart C

Model: PC24E-11-FC/R	Mode: - FCC test setup - supply voltage 115 V AC - RF-modem mounted in notebook AT&T Globalyst 200 via PC-card extender Sycard PCCextend 50A - shielding of PC-card extender improved - operating with bit rate 5.5 Mbps - TX mode with f = 2.442 GHz Tested on: antenna connector Note: Prescan for zooming into maximum!
Serial No.: 01UT33300016	
Applicant: Agere Systems Nederland B.V.	

Ref.Level 20 dBm ATT 20 dB Ref. Offset 21 dB
10 dB/Div.



Start 2.437 GHz Stop 2.447 GHz
RBW 3 kHz VBW 100 kHz SWP 3.40 s

Multi Marker List

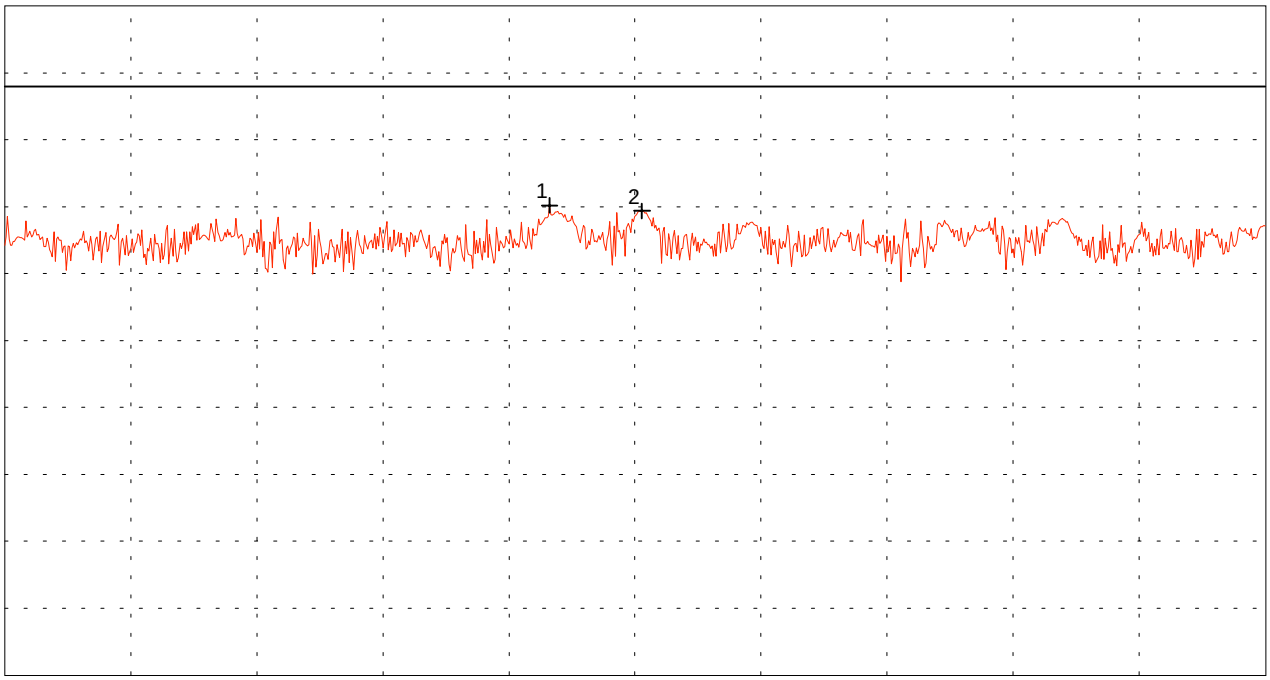
No. 1	2.442911 GHz	-10.79 dBm

Tested by: Rainer Heller	Project-No.: 56305-10552-1
Date: 08/05/2001	Page 57 of 157 Pages

Peak power density (conducted) acc. to FCC Part 15 Subpart C

Model: PC24E-11-FC/R	Mode: - FCC test setup - supply voltage 115 V AC - RF-modem mounted in notebook AT&T Globalyst 200 via PC-card extender Sycard PCCextend 50A - shielding of PC-card extender improved - operating with bit rate 5.5 Mbps - TX mode with f = 2.442 GHz Tested on: antenna connector Result: Test passed
Serial No.: 01UT33300016	
Applicant: Agere Systems Nederland B.V.	

Ref.Level 20 dBm ATT 20 dB Ref. Offset 21 dB
10 dB/Div.



Start 2.442761 GHz Stop 2.443061 GHz
RBW 3 kHz VBW 100 kHz SWP 100 s

Multi Marker List

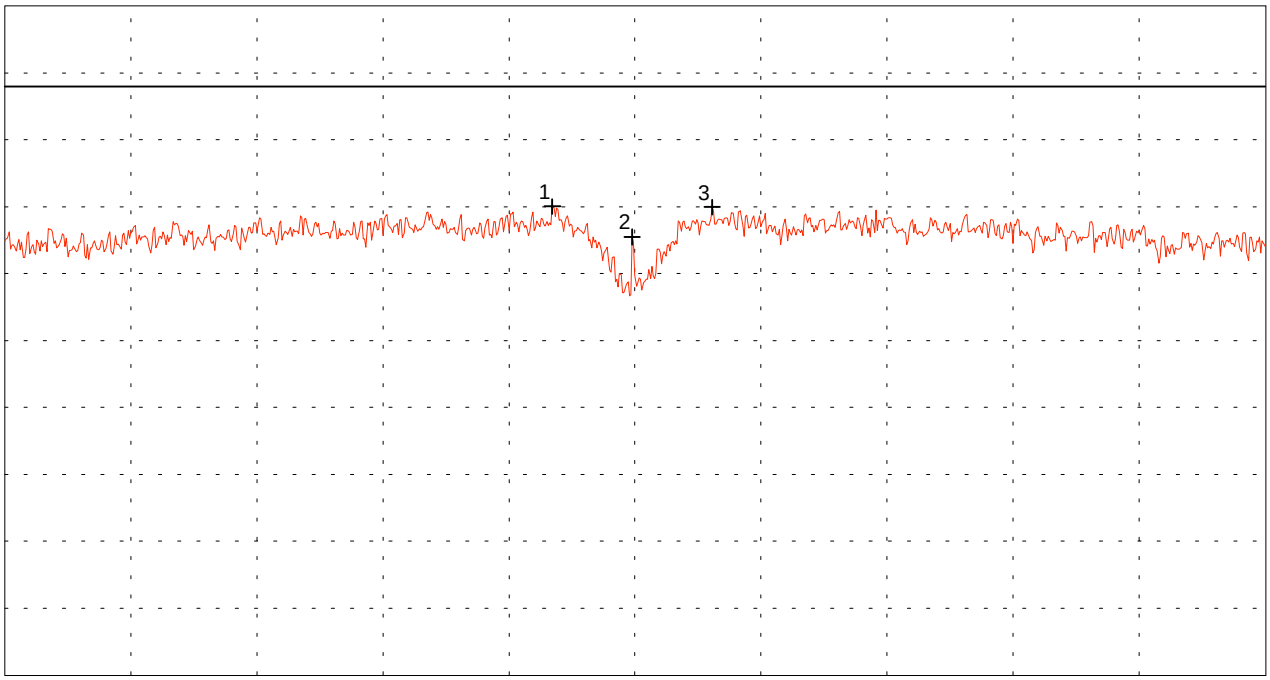
No. 1	2.442891 GHz	-9.83 dBm
No. 2	2.442913 GHz	-10.64 dBm

Tested by: Rainer Heller	Project-No.: 56305-10552-1
Date: 08/05/2001	Page 58 of 157 Pages

Peak power density (conducted) acc. to FCC Part 15 Subpart C

Model: PC24E-11-FC/R	Mode: - FCC test setup - supply voltage 115 V AC - RF-modem mounted in notebook AT&T Globalyst 200 via PC-card extender Sycard PCCextend 50A - shielding of PC-card extender improved - operating with bit rate 2 Mbps - TX mode with f = 2.442 GHz Tested on: antenna connector Note: Prescan for zooming into maximum!
Serial No.: 01UT33300016	
Applicant: Agere Systems Nederland B.V.	

Ref.Level 20 dBm ATT 20 dB Ref. Offset 21 dB
10 dB/Div.



Start 2.437 GHz Stop 2.447 GHz
RBW 3 kHz VBW 100 kHz SWP 3.40 s

Multi Marker List

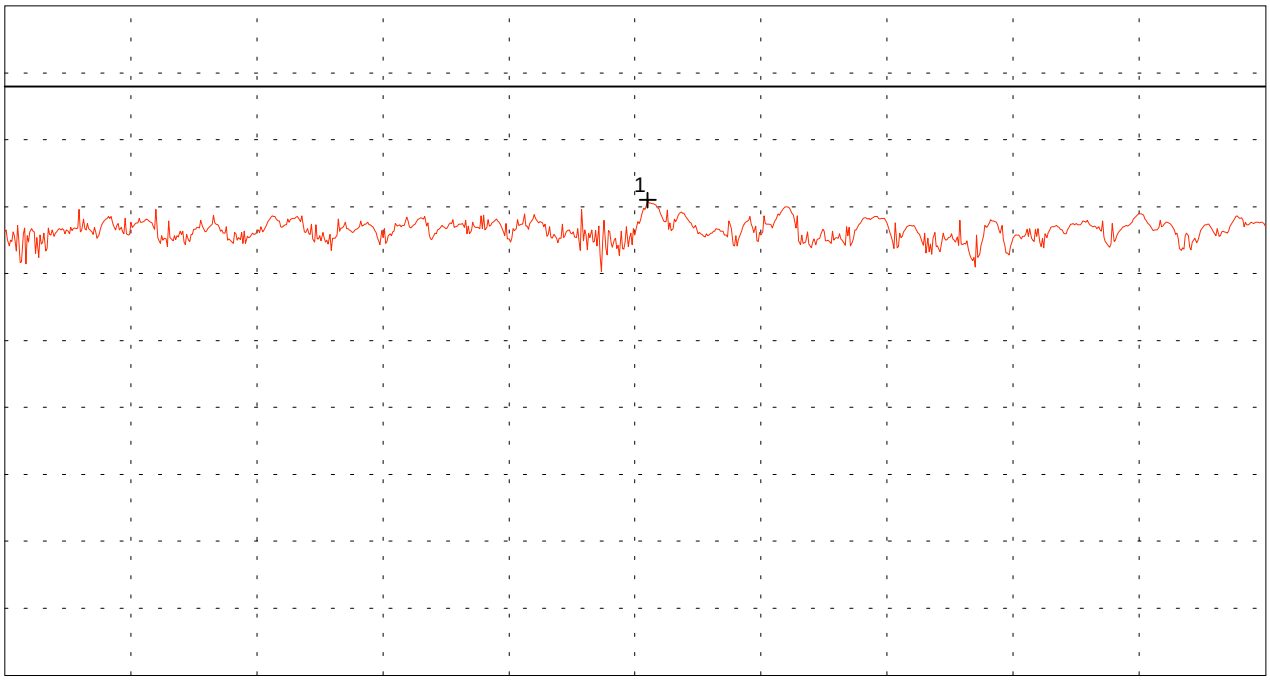
No. 1	2.441344 GHz	-9.98 dBm
No. 2	2.441978 GHz	-14.53 dBm
No. 3	2.442611 GHz	-10.08 dBm

Tested by: Rainer Heller	Project-No.: 56305-10552-1
Date: 08/05/2001	

Peak power density (conducted) acc. to FCC Part 15 Subpart C

Model: PC24E-11-FC/R	Mode: - FCC test setup - supply voltage 115 V AC - RF-modem mounted in notebook AT&T Globalyst 200 via PC-card extender Sycard PCCextend 50A - shielding of PC-card extender improved - operating with bit rate 2 Mbps - TX mode with f = 2.442 GHz Tested on: antenna connector Result: Test passed
Serial No.: 01UT33300016	
Applicant: Agere Systems Nederland B.V.	

Ref.Level 20 dBm ATT 20 dB Ref. Offset 21 dB
10 dB/Div.



Start 2.441194 GHz Stop 2.441494 GHz
RBW 3 kHz VBW 100 kHz SWP 100 s

Multi Marker List

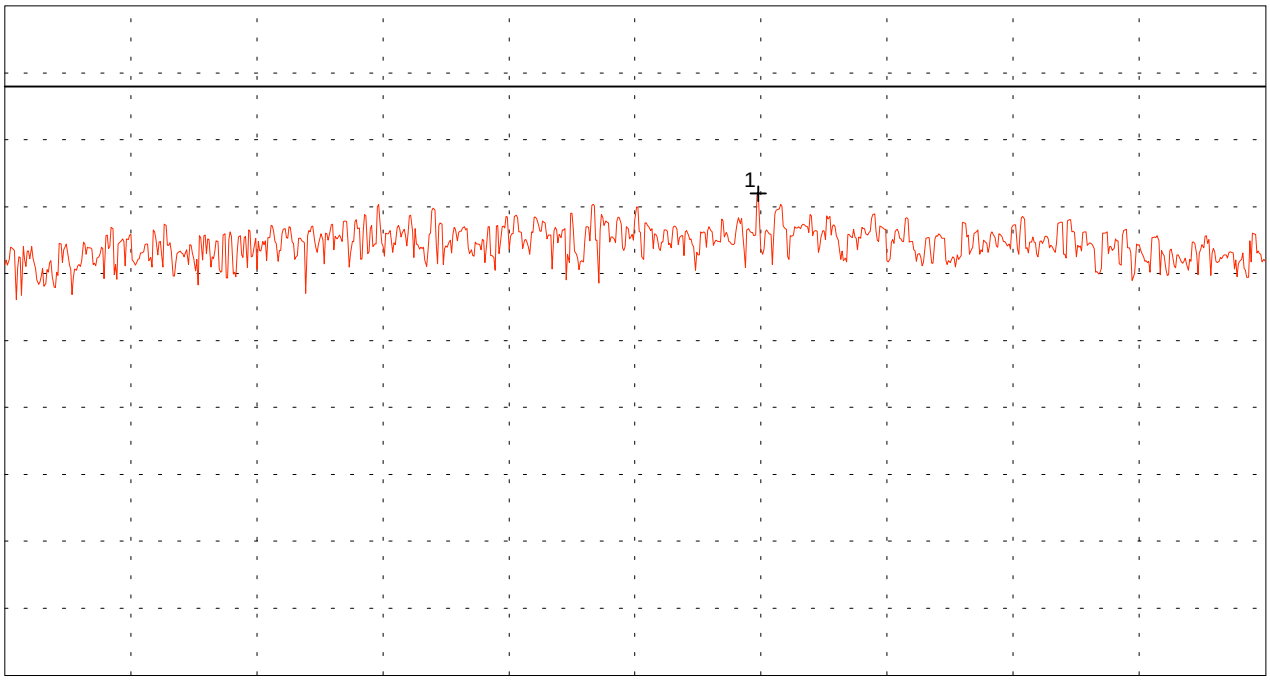
No. 1 2.441347 GHz -8.99 dBm

Tested by: Rainer Heller	Project-No.: 56305-10552-1
Date: 08/05/2001	

Peak power density (conducted) acc. to FCC Part 15 Subpart C

Model: PC24E-11-FC/R	Mode: - FCC test setup - supply voltage 115 V AC - RF-modem mounted in notebook AT&T Globalyst 200 via PC-card extender Sycard PCCextend 50A - shielding of PC-card extender improved - operating with bit rate 11 Mbps - TX mode with f = 2.462 GHz Tested on: antenna connector Note: Prescan for zooming into maximum!
Serial No.: 01UT33300016	
Applicant: Agere Systems Nederland B.V.	

Ref.Level 20 dBm ATT 20 dB Ref. Offset 21 dB
10 dB/Div.



Start 2.457 GHz Stop 2.467 GHz
RBW 3 kHz VBW 100 kHz SWP 3.40 s

Multi Marker List

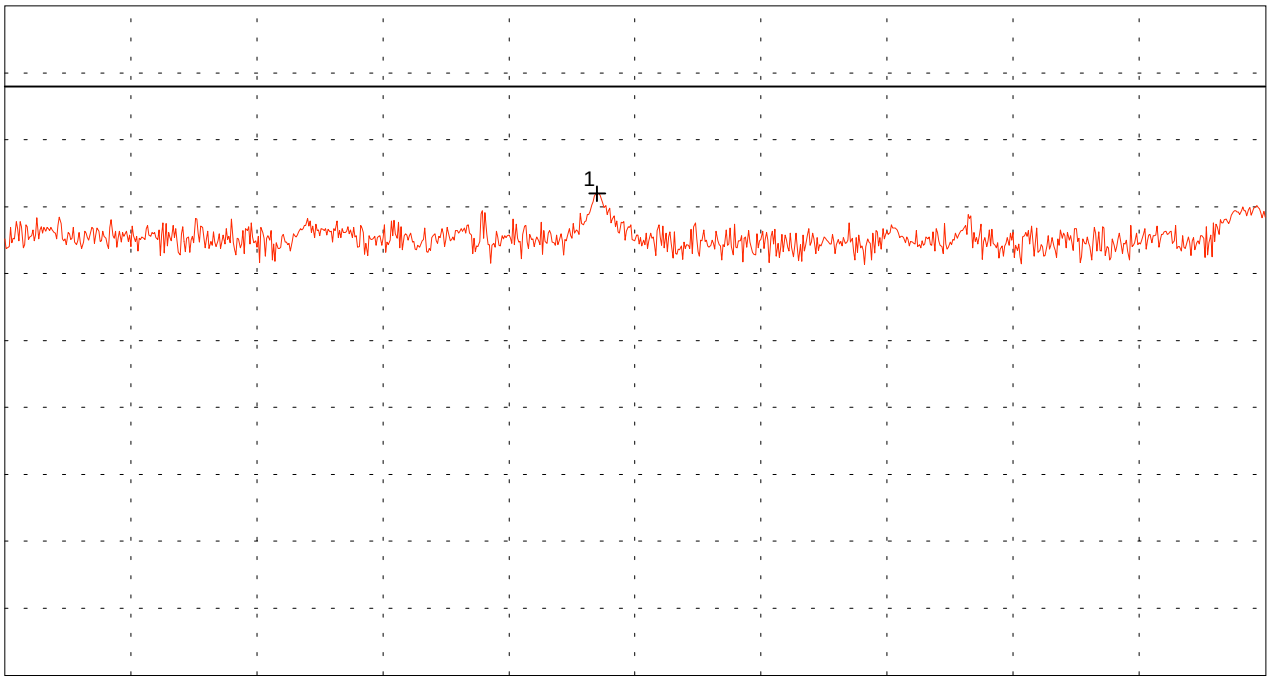
No. 1 2.462978 GHz -8.05 dBm

Tested by: Rainer Heller	Project-No.: 56305-10552-1
Date: 08/05/2001	Page 61 of 157 Pages

Peak power density (conducted) acc. to FCC Part 15 Subpart C

Model: PC24E-11-FC/R	Mode: - FCC test setup - supply voltage 115 V AC - RF-modem mounted in notebook AT&T Globalyst 200 via PC-card extender Sycard PCCextend 50A - shielding of PC-card extender improved - operating with bit rate 11 Mbps - TX mode with f = 2.462 GHz Tested on: antenna connector Result: Test passed
Serial No.: 01UT33300016	
Applicant: Agere Systems Nederland B.V.	

Ref.Level 20 dBm ATT 20 dB Ref. Offset 21 dB
10 dB/Div.



Start 2.462828 GHz Stop 2.463128 GHz
RBW 3 kHz VBW 100 kHz SWP 100 s

Multi Marker List

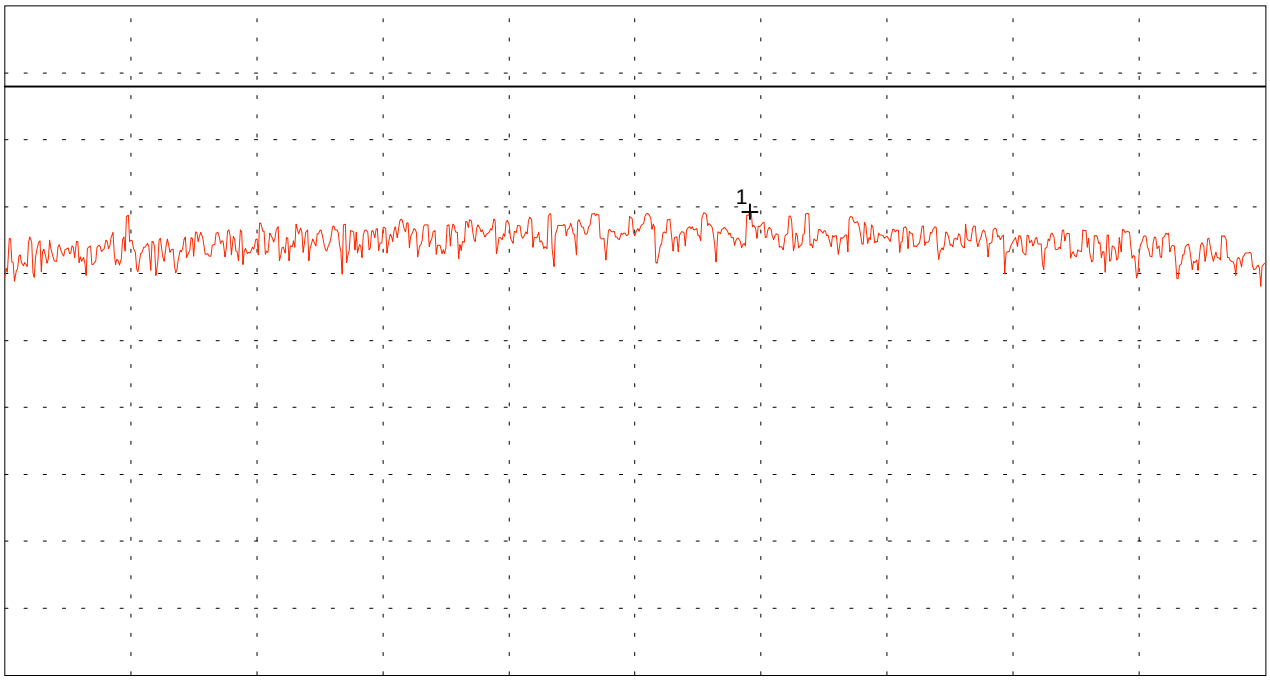
No. 1 2.462969 GHz -8.03 dBm

Tested by: Rainer Heller	Project-No.: 56305-10552-1
Date: 08/05/2001	

Peak power density (conducted) acc. to FCC Part 15 Subpart C

Model: PC24E-11-FC/R	Mode: - FCC test setup - supply voltage 115 V AC - RF-modem mounted in notebook AT&T Globalyst 200 via PC-card extender Sycard PCCextend 50A - shielding of PC-card extender improved - operating with bit rate 5.5 Mbps - TX mode with f = 2.462 GHz Tested on: antenna connector Note: Prescan for zooming into maximum!
Serial No.: 01UT33300016	
Applicant: Agere Systems Nederland B.V.	

Ref.Level 20 dBm ATT 20 dB Ref. Offset 21 dB
10 dB/Div.



Start 2.457 GHz Stop 2.467 GHz
RBW 3 kHz VBW 100 kHz SWP 3.40 s

Multi Marker List

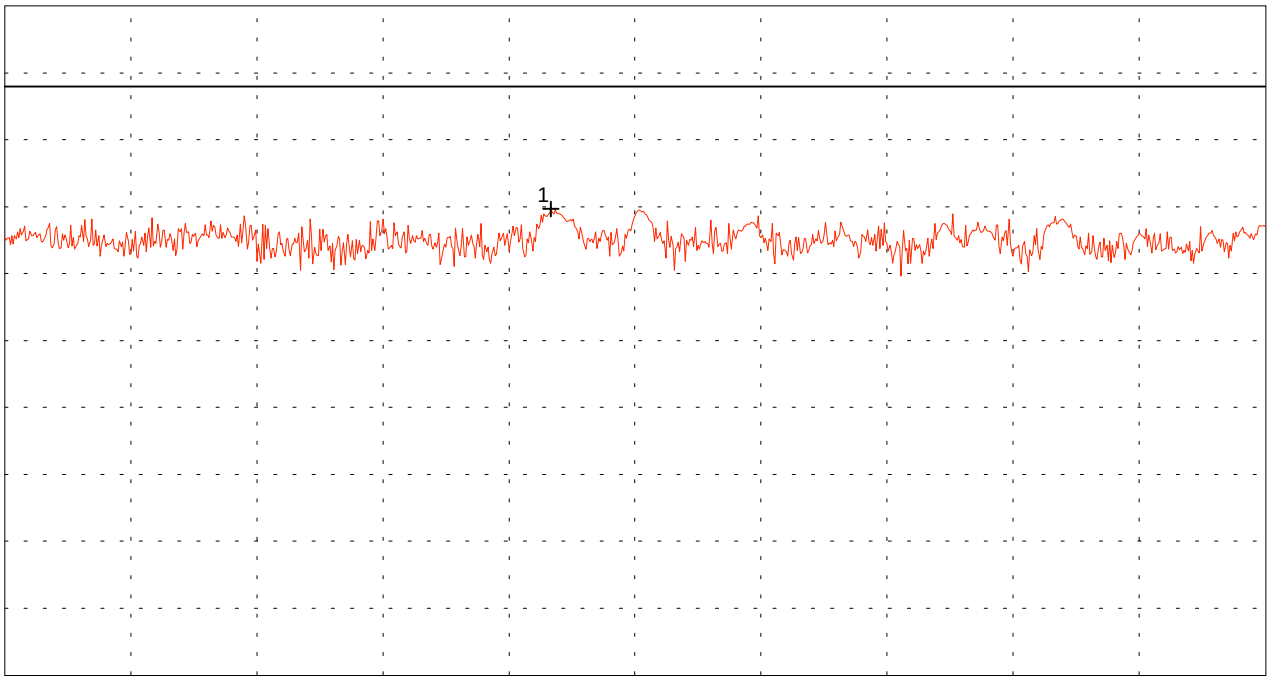
No. 1 2.462911 GHz -10.77 dBm

Tested by: Rainer Heller	Project-No.: 56305-10552-1
Date: 08/05/2001	Page 63 of 157 Pages

Peak power density (conducted) acc. to FCC Part 15 Subpart C

Model: PC24E-11-FC/R	Mode: - FCC test setup - supply voltage 115 V AC - RF-modem mounted in notebook AT&T Globalyst 200 via PC-card extender Sycard PCCextend 50A - shielding of PC-card extender improved - operating with bit rate 5.5 Mbps - TX mode with f = 2.462 GHz Tested on: antenna connector Result: Test passed
Serial No.: 01UT33300016	
Applicant: Agere Systems Nederland B.V.	

Ref.Level 20 dBm ATT 20 dB Ref. Offset 21 dB
10 dB/Div.



Start 2.462761 GHz Stop 2.463061 GHz
RBW 3 kHz VBW 100 kHz SWP 100 s

Multi Marker List

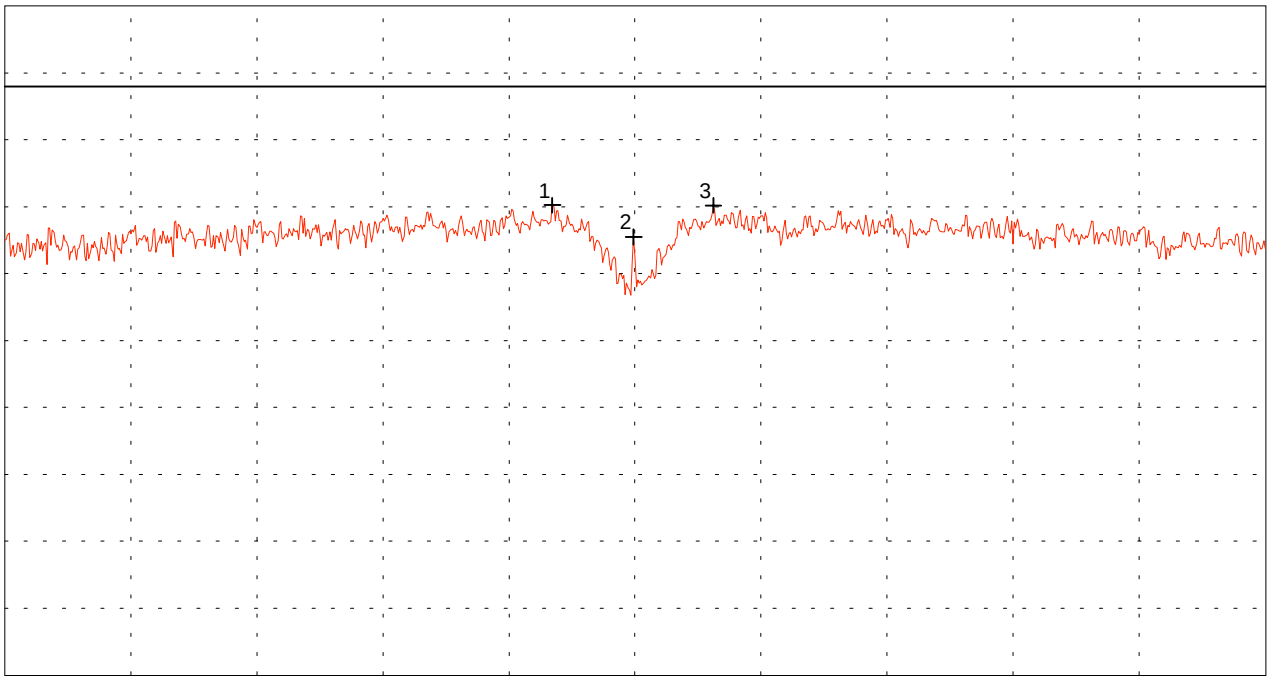
No. 1 2.462891 GHz -10.34 dBm

Tested by: Rainer Heller	Project-No.: 56305-10552-1
Date: 08/05/2001	

Peak power density (conducted) acc. to FCC Part 15 Subpart C

Model: PC24E-11-FC/R	Mode: - FCC test setup - supply voltage 115 V AC - RF-modem mounted in notebook AT&T Globalyst 200 via PC-card extender Sycard PCCextend 50A - shielding of PC-card extender improved - operating with bit rate 2 Mbps - TX mode with f = 2.462 GHz Tested on: antenna connector Note: Prescan for zooming into maximum!
Serial No.: 01UT33300016	
Applicant: Agere Systems Nederland B.V.	

Ref.Level 20 dBm ATT 20 dB Ref. Offset 21 dB
10 dB/Div.



Start 2.457 GHz Stop 2.467 GHz
RBW 3 kHz VBW 100 kHz SWP 3.40 s

Multi Marker List

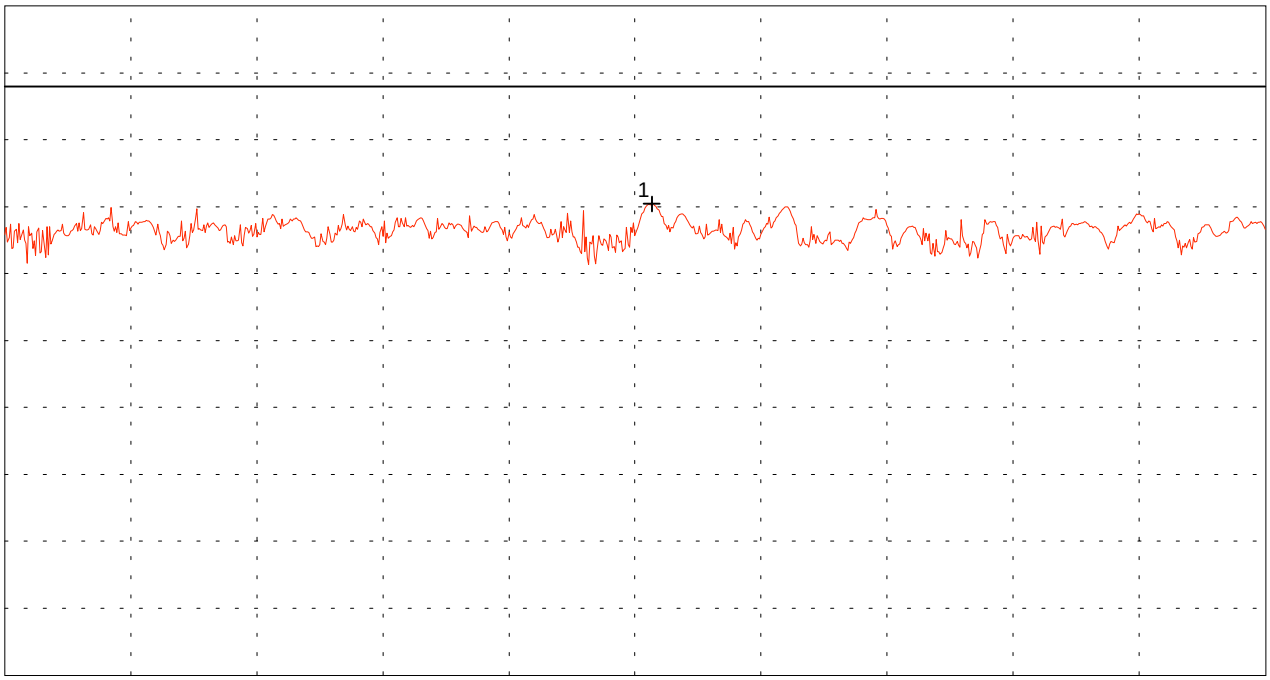
No. 1	2.461344 GHz	-9.78 dBm
No. 2	2.461989 GHz	-14.53 dBm
No. 3	2.462622 GHz	-9.83 dBm

Tested by: Rainer Heller	Project-No.: 56305-10552-1
Date: 08/05/2001	

Peak power density (conducted) acc. to FCC Part 15 Subpart C

Model: PC24E-11-FC/R	Mode: - FCC test setup - supply voltage 115 V AC - RF-modem mounted in notebook AT&T Globalyst 200 via PC-card extender Sycard PCCextend 50A - shielding of PC-card extender improved - operating with bit rate 2 Mbps - TX mode with f = 2.462 GHz Tested on: antenna connector Result: Test passed
Serial No.: 01UT33300016	
Applicant: Agere Systems Nederland B.V.	

Ref.Level 20 dBm ATT 20 dB Ref. Offset 21 dB
10 dB/Div.



Start 2.461194 GHz Stop 2.461494 GHz
RBW 3 kHz VBW 100 kHz SWP 100 s

Multi Marker List

No. 1 2.461348 GHz -9.58 dBm

Tested by: Rainer Heller	Project-No.: 56305-10552-1
Date: 08/05/2001	

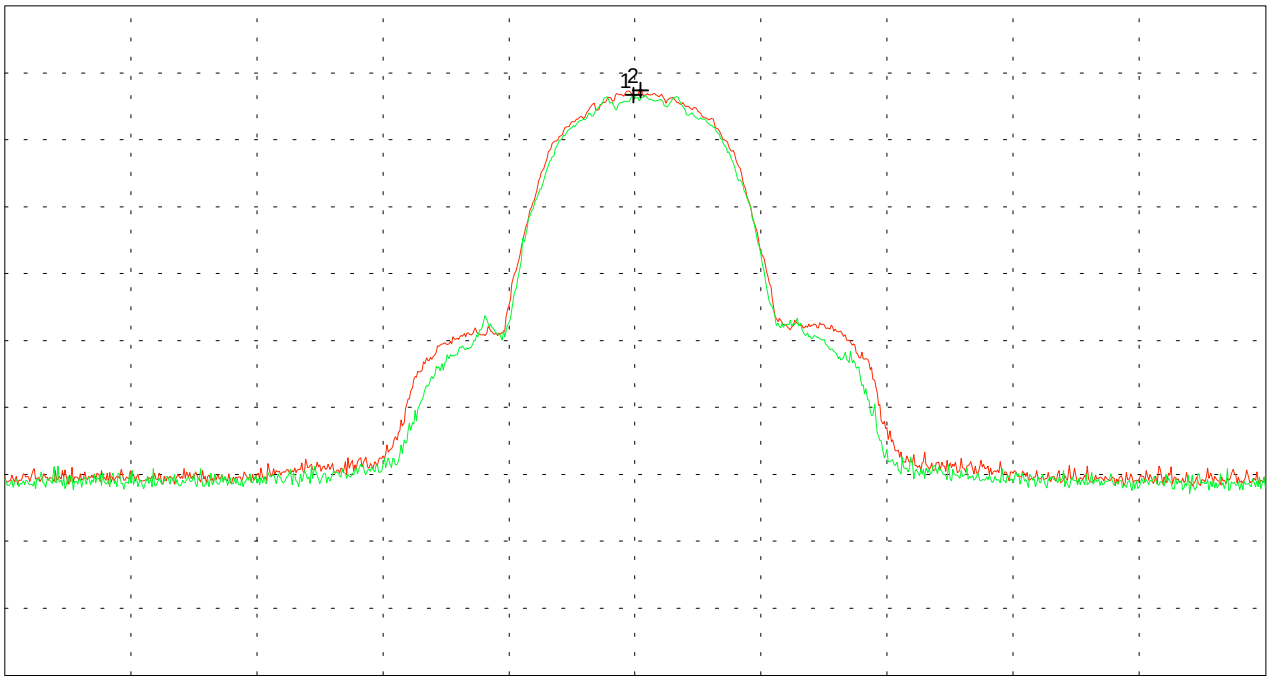
Frequency range (conducted) acc. to FCC Part 15 Subpart C

Model: PC24E-11-FC/R	Mode: - FCC test setup - supply voltage 115 V AC - RF-modem mounted in notebook AT&T Globalyst 200 via PC-card extender Sycard PCCextend 50A - shielding of PC-card extender improved - TX mode with f = 2.412 GHz Tested on: antenna connector Channel A (red) = operating with bit rate 11 Mbps Channel B (green) = operating with bit rate 5.5 Mbps Note: Prescan for radiated emission at band edges (for information only)
Serial No.: 01UT33300016	
Applicant: Agere Systems Nederland B.V.	

Ref.Level 130 dBµV
10 dB/Div.

ATT 5 dB

Ref. Offset 21 dB



Start 2.362 GHz
RBW 1 MHz

VBW 1 MHz

Stop 2.462 GHz
SWP 20 ms

Multi Marker List

No. 1	2.411889 GHz	116.68 dBµV	(B)
No. 2	2.412444 GHz	117.42 dBµV	(A)

Tested by: Rainer Heller	Project-No.: 56305-10552-1
Date: 08/05/2001	

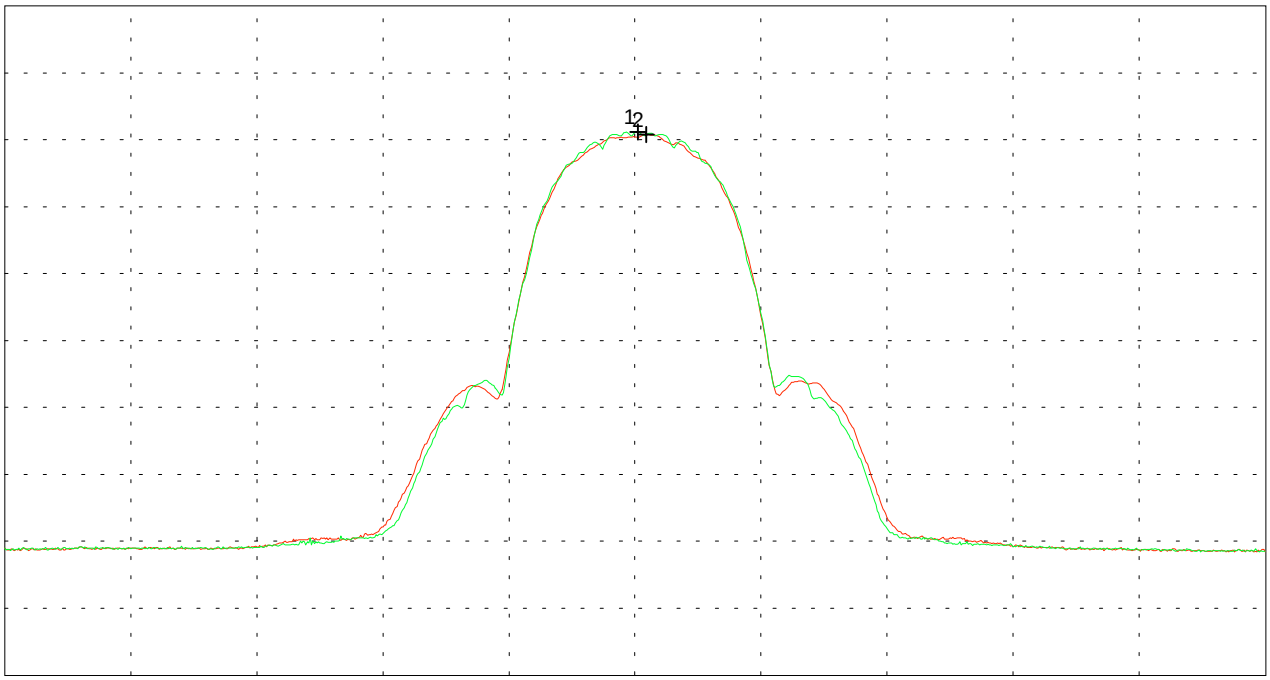
Frequency range (conducted) acc. to FCC Part 15 Subpart C

Model: PC24E-11-FC/R	Mode: - FCC test setup - supply voltage 115 V AC - RF-modem mounted in notebook AT&T Globalyst 200 via PC-card extender Sycard PCCextend 50A - shielding of PC-card extender improved - TX mode with f = 2.412 GHz Tested on: antenna connector Channel A (red) = operating with bit rate 11 Mbps Channel B (green) = operating with bit rate 5.5 Mbps Note: Prescan for radiated emission at band edges (for information only)
Serial No.: 01UT33300016	
Applicant: Agere Systems Nederland B.V.	

Ref.Level 130 dBµV
10 dB/Div.

ATT 5 dB

Ref. Offset 21 dB



Start 2.362 GHz
RBW 1 MHz

VBW 1 kHz

Stop 2.462 GHz
SWP 300 ms

Multi Marker List

No. 1	2.412222 GHz	111.17 dBµV	(B)
No. 2	2.412889 GHz	110.79 dBµV	(A)

Tested by: Rainer Heller	Project-No.: 56305-10552-1
Date: 08/05/2001	

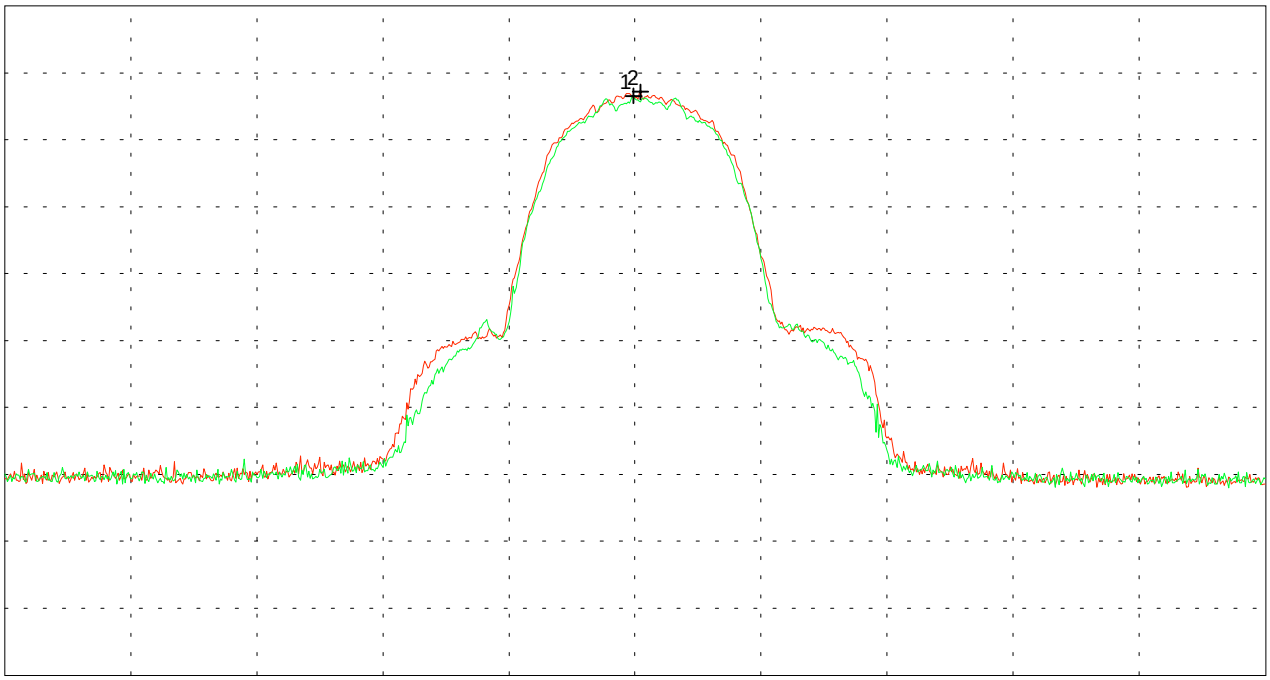
Frequency range (conducted) acc. to FCC Part 15 Subpart C

Model: PC24E-11-FC/R	Mode: - FCC test setup - supply voltage 115 V AC - RF-modem mounted in notebook AT&T Globalyst 200 via PC-card extender Sycard PCCextend 50A - shielding of PC-card extender improved - TX mode with f = 2.462 GHz Tested on: antenna connector Channel A (red) = operating with bit rate 11 Mbps Channel B (green) = operating with bit rate 5.5 Mbps Note: Prescan for radiated emission at band edges (for information only)
Serial No.: 01UT33300016	
Applicant: Agere Systems Nederland B.V.	

Ref.Level 130 dBµV
10 dB/Div.

ATT 5 dB

Ref. Offset 21 dB



Start 2.412 GHz
RBW 1 MHz

VBW 1 MHz

Stop 2.512 GHz
SWP 20 ms

Multi Marker List

No. 1	2.461889 GHz	116.58 dBµV	(B)
No. 2	2.462444 GHz	117.16 dBµV	(A)

Tested by: Rainer Heller	Project-No.: 56305-10552-1
Date: 08/05/2001	

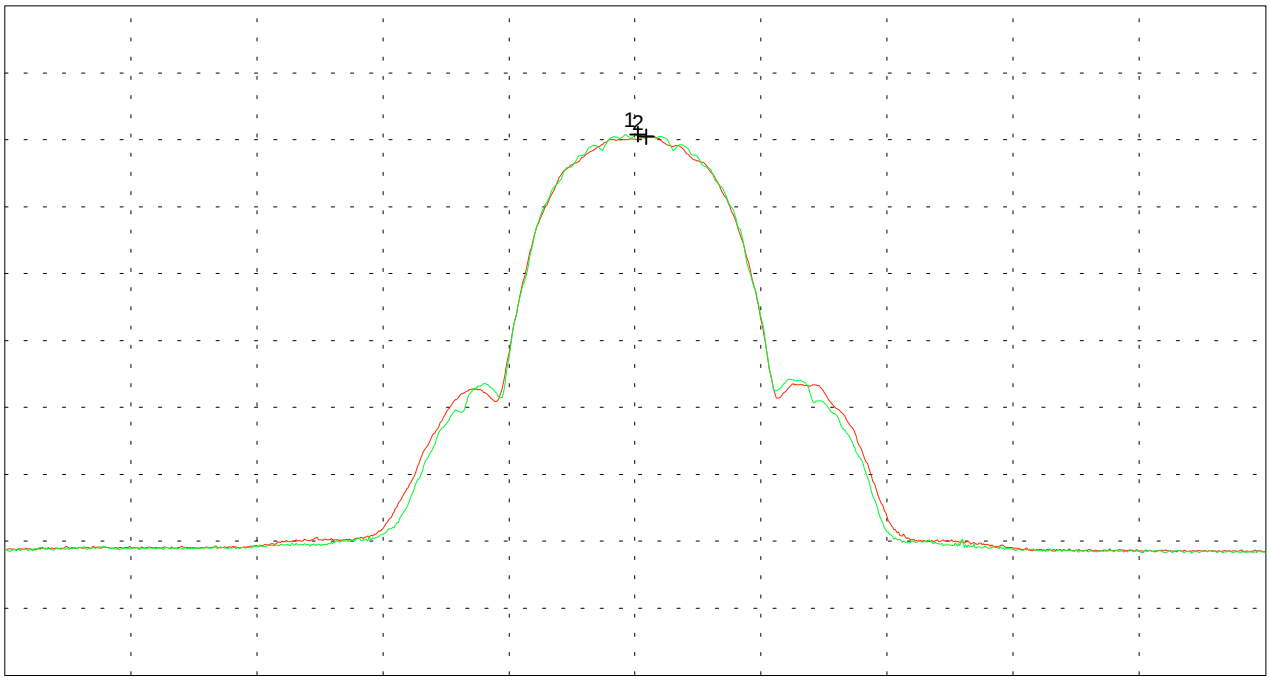
Frequency range (conducted) acc. to FCC Part 15 Subpart C

Model: PC24E-11-FC/R	Mode: - FCC test setup - supply voltage 115 V AC - RF-modem mounted in notebook AT&T Globalyst 200 via PC-card extender Sycard PCCextend 50A - shielding of PC-card extender improved - TX mode with f = 2.462 GHz Tested on: antenna connector Channel A (red) = operating with bit rate 11 Mbps Channel B (green) = operating with bit rate 5.5 Mbps Note: Prescan for radiated emission at band edges (for information only)
Serial No.: 01UT33300016	
Applicant: Agere Systems Nederland B.V.	

Ref.Level 130 dBµV
10 dB/Div.

ATT 5 dB

Ref. Offset 21 dB



Start 2.412 GHz
RBW 1 MHz

VBW 1 kHz

Stop 2.512 GHz
SWP 300 ms

Multi Marker List

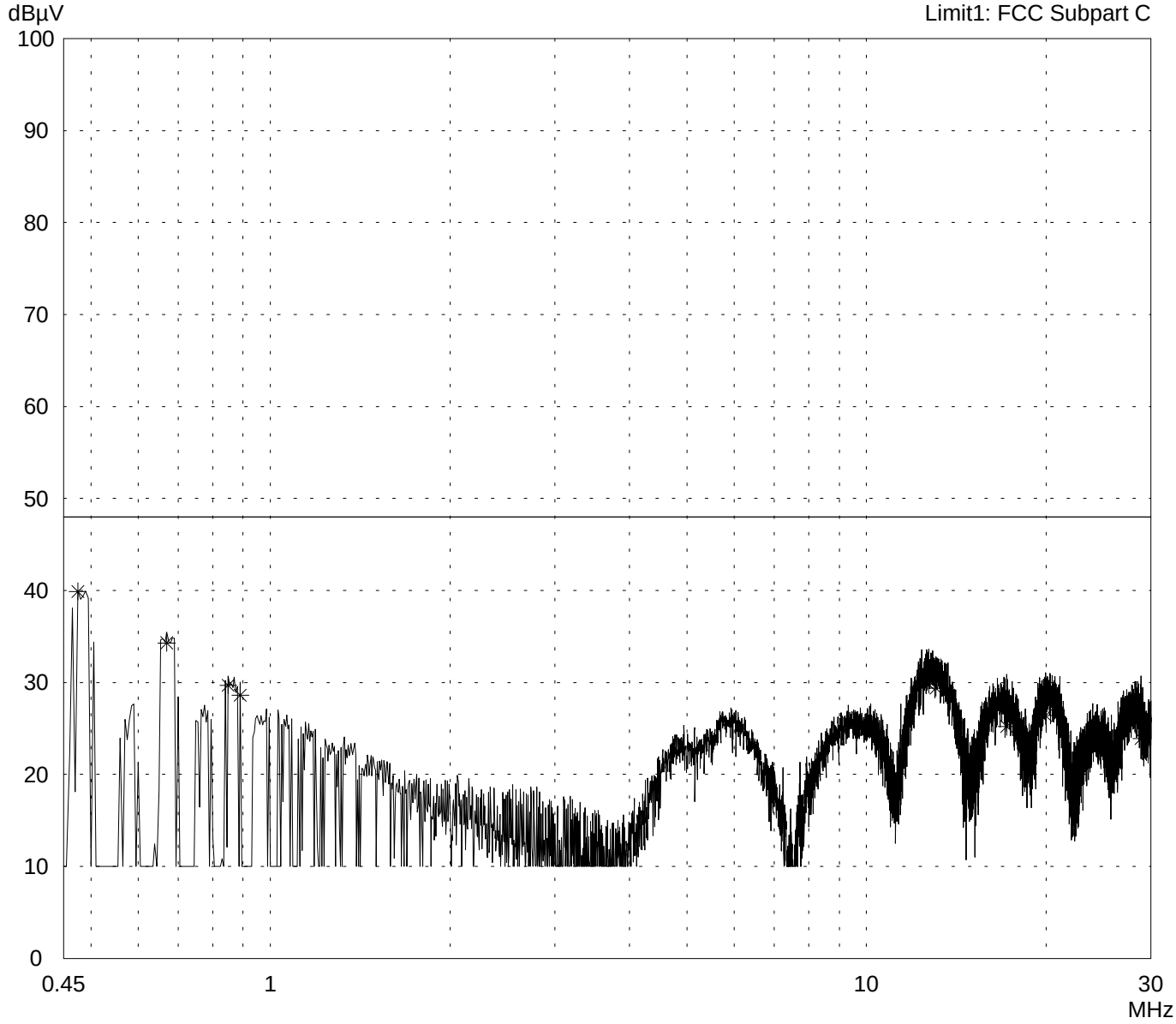
No. 1	2.462222 GHz	110.82 dBµV	(B)
No. 2	2.462889 GHz	110.46 dBµV	(A)

Tested by: Rainer Heller	Project-No.: 56305-10552-1
Date: 08/05/2001	

Conducted Emission Test 450 kHz - 30 MHz
according to FCC Part 15 Subpart C

Model: PC24E-11-FC/R	Mode:
Serial no.: 01UT33300016	- FCC test setup - supply voltage 115 V AC - RF-modem mounted in notebook AT&T Globalyst 200 via PC-card extender Sycard PCCextend 50A - shielding of PC-card extender improved - display switched off - operating with bit rate 11 Mbps - TX mode with f = 2.412 GHz
Applicant: Agere Systems Nederland B.V.	
Test site: Shielded room, cabin no. 2	
Tested on: Linecord EUT (notebook) Phase L1	
Date of test: 08/30/2001 / Operator: R. Heller	
Test performed: automatically / File name:	

Detector: Peak / Final Results: QP	Final results: 20 dB Margin 25 Subranges



Result: Limit kept	Project file: 56305-10552-1 Page 71 of 157 Pages

Conducted Emission Test 450 kHz - 30 MHz
according to FCC Part 15 Subpart C

Model:
PC24E-11-FC/R

Serial no.:
01UT33300016

Applicant:
Agere Systems Nederland B.V.

Test site:
Shielded room, cabin no. 2

Tested on:
Linecord EUT (notebook)
Phase L1

Date of test: 08/30/2001
Operator: R. Heller

Test performed: automatically
File name:

Mode:
- FCC test setup
- supply voltage 115 V AC
- RF-modem mounted in notebook AT&T Globalyst 200 via PC-card extender Sycard PCCextend 50A
- shielding of PC-card extender improved
- display switched off

- operating with bit rate 11 Mbps

- TX mode with f = 2.412 GHz

Detector:
Peak / Final Results: QP

Final results:
20 dB Margin 25 Subranges

Frequency MHz	*Reading dBµV*	*Correction factor dB*	*Value dBµV*	*Limit dBµV*	*Limit exceeded*
0.475	39.9		39.9	48.0	
0.670	34.3		34.3	48.0	
0.850	29.7		29.7	48.0	
0.890	28.6		28.6	48.0	
12.710	29.8		29.8	48.0	
13.075	29.4		29.4	48.0	
17.175	25.2		25.2	48.0	
19.965	26.4		26.4	48.0	
28.885	23.9		23.9	48.0	

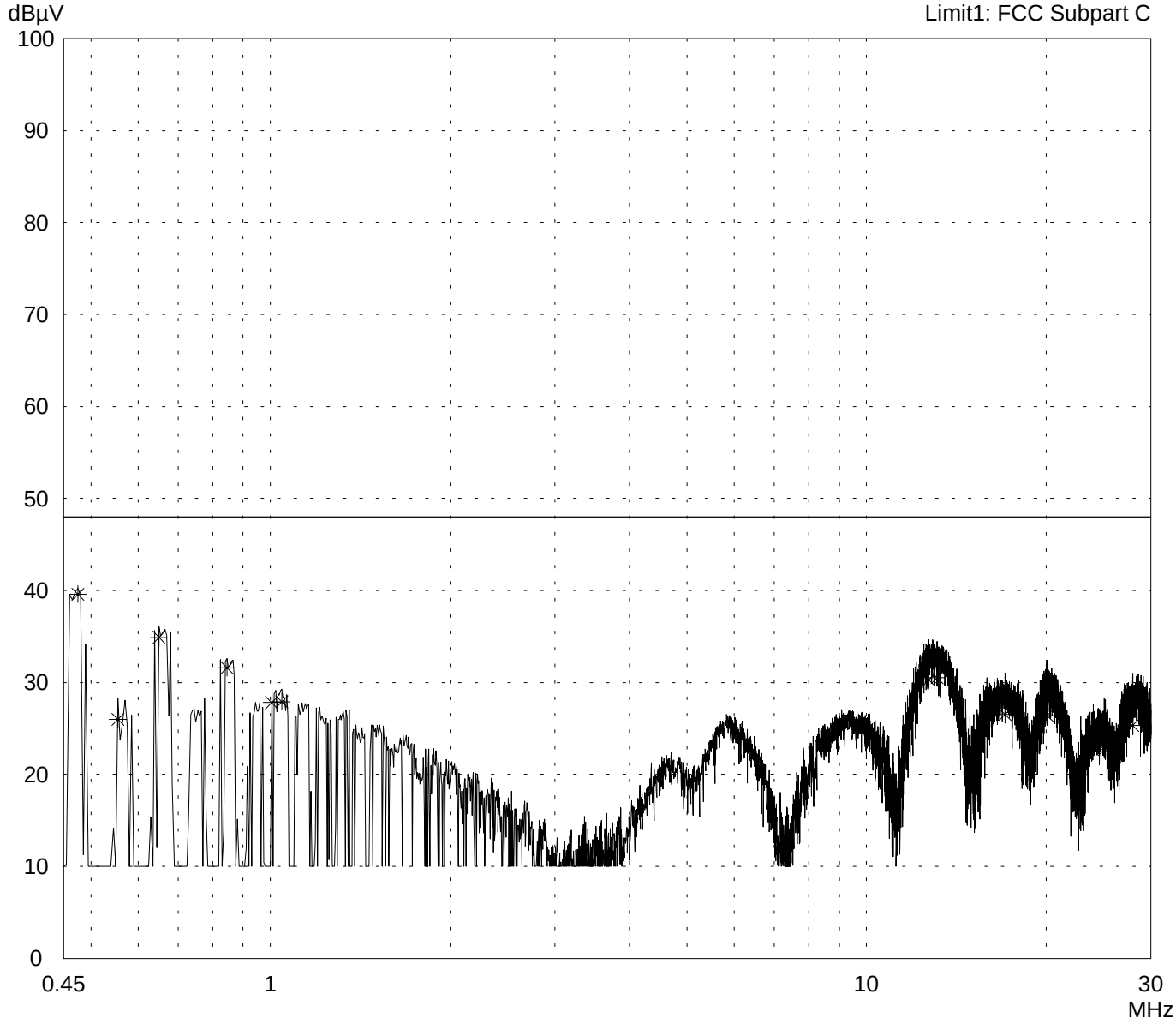
Result:
Limit kept

Project file:
56305-10552-1

Conducted Emission Test 450 kHz - 30 MHz
according to FCC Part 15 Subpart C

Model: PC24E-11-FC/R	Mode:
Serial no.: 01UT33300016	- FCC test setup - supply voltage 115 V AC - RF-modem mounted in notebook AT&T Globalyst 200 via PC-card extender Sycard PCCextend 50A - shielding of PC-card extender improved - display switched off - operating with bit rate 11 Mbps - TX mode with f = 2.412 GHz
Applicant: Agere Systems Nederland B.V.	
Test site: Shielded room, cabin no. 2	
Tested on: Linecord EUT (notebook) Phase N	
Date of test: 08/30/2001 / Operator: R. Heller	
Test performed: automatically / File name:	

Detector: Peak / Final Results: QP	Final results: 20 dB Margin 25 Subranges



Result: Limit kept	Project file: 56305-10552-1 Page 73 of 157 Pages

Conducted Emission Test 450 kHz - 30 MHz
according to FCC Part 15 Subpart C

Model:
PC24E-11-FC/R

Serial no.:
01UT33300016

Applicant:
Agere Systems Nederland B.V.

Test site:
Shielded room, cabin no. 2

Tested on:
Linecord EUT (notebook)
Phase N

Date of test: 08/30/2001
Operator: R. Heller

Test performed: automatically
File name:

Mode:
- FCC test setup
- supply voltage 115 V AC
- RF-modem mounted in notebook AT&T Globalyst 200 via PC-card extender Sycard PCCextend 50A
- shielding of PC-card extender improved
- display switched off

- operating with bit rate 11 Mbps

- TX mode with f = 2.412 GHz

Detector:
Peak / Final Results: QP

Final results:
20 dB Margin 25 Subranges

Frequency MHz	*Reading dBµV*	*Correction factor dB*	*Value dBµV*	*Limit dBµV*	*Limit exceeded*
0.475	39.6		39.6	48.0	
0.555	26.0		26.0	48.0	
0.650	34.9		34.9	48.0	
0.845	31.6		31.6	48.0	
1.005	27.8		27.8	48.0	
1.045	27.9		27.9	48.0	
12.715	30.3		30.3	48.0	
13.130	30.5		30.5	48.0	
17.085	26.5		26.5	48.0	
20.075	26.4		26.4	48.0	
25.045	22.7		22.7	48.0	
27.940	25.3		25.3	48.0	

Result:
Limit kept

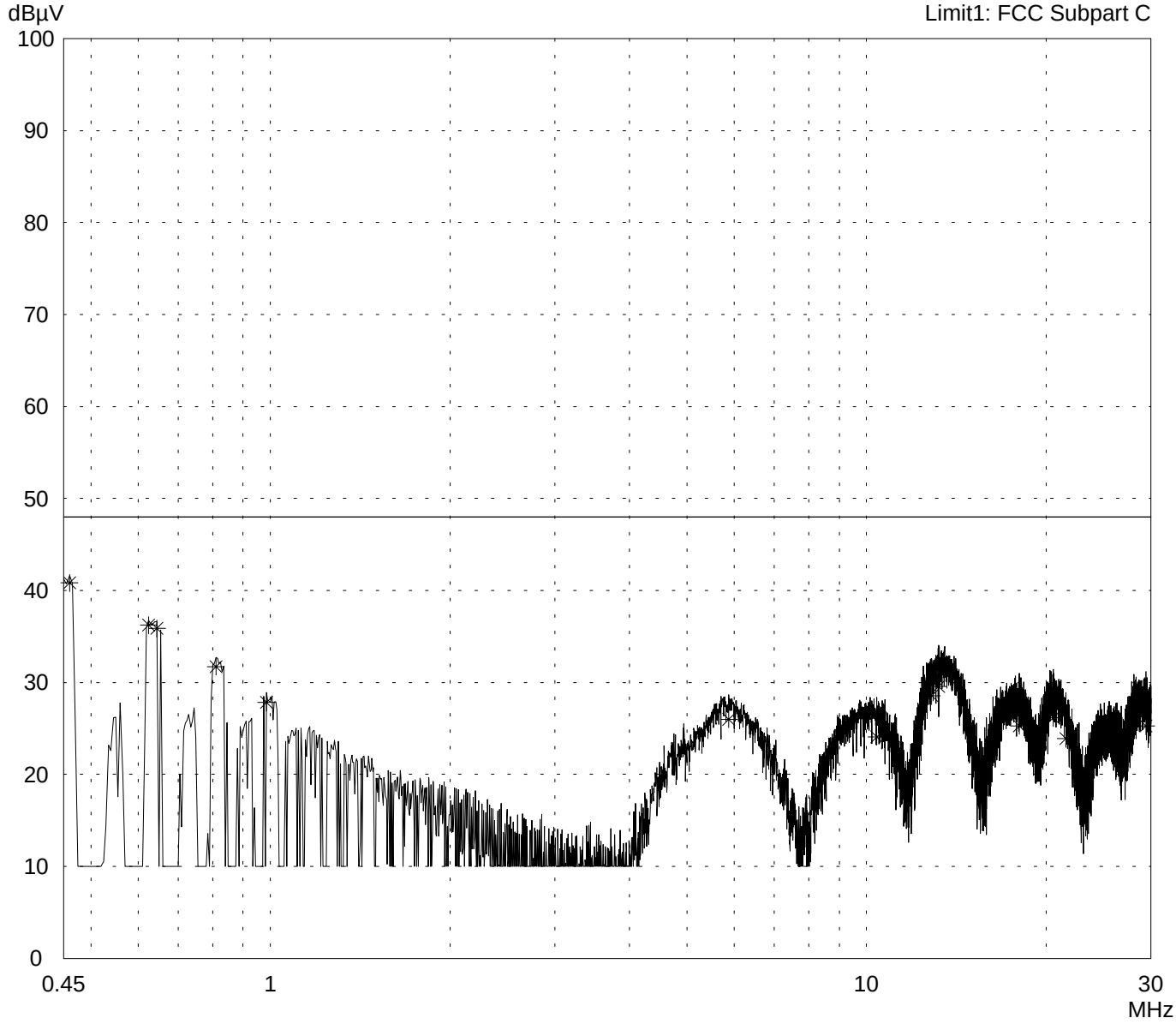
Project file:
56305-10552-1

Senton GmbH / EMI/EMC Laboratories / Aeussere Fruehlingsstrasse 45 / D-94315 Straubing / Tel. +49 9421 55220

Conducted Emission Test 450 kHz - 30 MHz
according to FCC Part 15 Subpart C

Model: PC24E-11-FC/R	Mode:
Serial no.: 01UT33300016	- FCC test setup - supply voltage 115 V AC - RF-modem mounted in notebook AT&T Globalyst 200 via PC-card extender Sycard PCCextend 50A - shielding of PC-card extender improved - display switched off - operating with bit rate 11 Mbps - TX mode with f = 2.442 GHz
Applicant: Agere Systems Nederland B.V.	
Test site: Shielded room, cabin no. 2	
Tested on: Linecord EUT (notebook) Phase L1	
Date of test: 08/30/2001 / Operator: R. Heller	
Test performed: automatically / File name:	

Detector: Peak / Final Results: QP	Final results: 20 dB Margin / 25 Subranges



Result: Limit kept	Project file: 56305-10552-1 / Page 75 of 157 Pages

Conducted Emission Test 450 kHz - 30 MHz
according to FCC Part 15 Subpart C

Model:
PC24E-11-FC/R

Serial no.:
01UT33300016

Applicant:
Agere Systems Nederland B.V.

Test site:
Shielded room, cabin no. 2

Tested on:
Linecord EUT (notebook)
Phase L1

Date of test: 08/30/2001
Operator: R. Heller

Test performed: automatically
File name:

Mode:
- FCC test setup
- supply voltage 115 V AC
- RF-modem mounted in notebook AT&T Globalyst 200 via PC-card extender Sycard PCCextend 50A
- shielding of PC-card extender improved
- display switched off

- operating with bit rate 11 Mbps

- TX mode with f = 2.442 GHz

Detector:
Peak / Final Results: QP

Final results:
20 dB Margin 25 Subranges

Frequency MHz	*Reading dBµV*	*Correction factor dB*	*Value dBµV*	*Limit dBµV*	*Limit exceeded*
0.460	40.8		40.8	48.0	
0.625	36.2		36.2	48.0	
0.645	35.9		35.9	48.0	
0.810	31.7		31.7	48.0	
0.985	27.8		27.8	48.0	
5.875	26.0		26.0	48.0	
10.405	24.1		24.1	48.0	
12.870	28.5		28.5	48.0	
13.210	29.6		29.6	48.0	
18.030	25.3		25.3	48.0	
20.560	26.1		26.1	48.0	
21.585	23.9		23.9	48.0	
29.445	25.3		25.3	48.0	

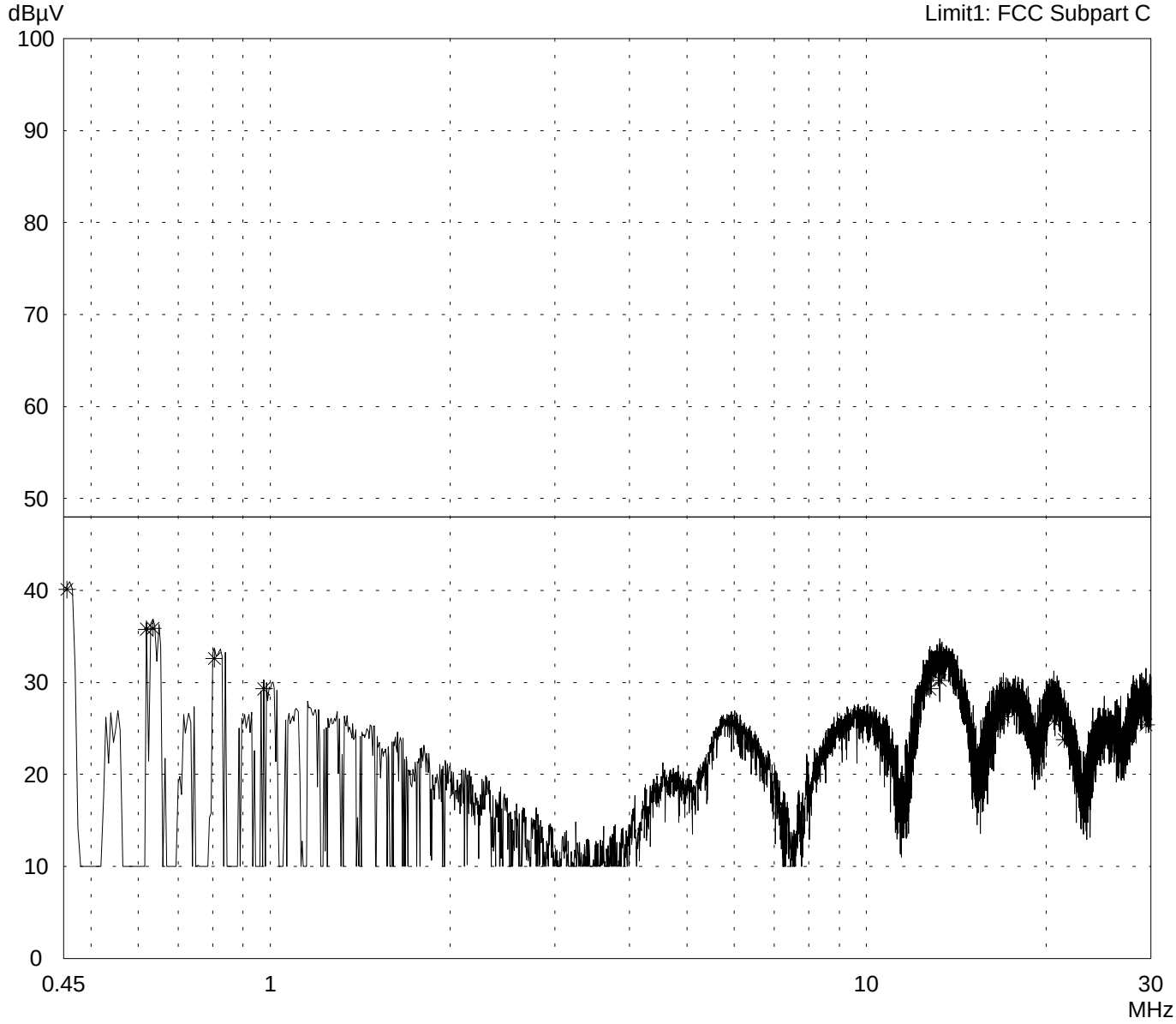
Result:
Limit kept

Project file:
56305-10552-1

Conducted Emission Test 450 kHz - 30 MHz
according to FCC Part 15 Subpart C

Model: PC24E-11-FC/R	Mode:
Serial no.: 01UT33300016	- FCC test setup - supply voltage 115 V AC - RF-modem mounted in notebook AT&T Globalyst 200 via PC-card extender Sycard PCCextend 50A - shielding of PC-card extender improved - display switched off - operating with bit rate 11 Mbps - TX mode with f = 2.442 GHz
Applicant: Agere Systems Nederland B.V.	
Test site: Shielded room, cabin no. 2	
Tested on: Linecord EUT (notebook) Phase N	
Date of test: 08/30/2001 / Operator: R. Heller	
Test performed: automatically / File name:	

Detector: Peak / Final Results: QP	Final results: 20 dB Margin 25 Subranges



Result: Limit kept	Project file: 56305-10552-1 Page 77 of 157 Pages

Conducted Emission Test 450 kHz - 30 MHz
according to FCC Part 15 Subpart C

Model:
PC24E-11-FC/R

Serial no.:
01UT33300016

Applicant:
Agere Systems Nederland B.V.

Test site:
Shielded room, cabin no. 2

Tested on:
Linecord EUT (notebook)
Phase N

Date of test: 08/30/2001
Operator: R. Heller

Test performed: automatically
File name:

Mode:
- FCC test setup
- supply voltage 115 V AC
- RF-modem mounted in notebook AT&T Globalyst 200 via PC-card extender Sycard PCCextend 50A
- shielding of PC-card extender improved
- display switched off

- operating with bit rate 11 Mbps

- TX mode with f = 2.442 GHz

Detector:
Peak / Final Results: QP

Final results:
20 dB Margin 25 Subranges

Frequency MHz	*Reading dBµV*	*Correction factor dB*	*Value dBµV*	*Limit dBµV*	*Limit exceeded*
0.456	40.1		40.1	48.0	
0.620	35.8		35.8	48.0	
0.635	35.9		35.9	48.0	
0.805	32.6		32.6	48.0	
0.975	29.3		29.3	48.0	
12.760	29.3		29.3	48.0	
13.285	30.2		30.2	48.0	
16.965	26.3		26.3	48.0	
20.605	25.8		25.8	48.0	
21.485	23.8		23.8	48.0	
29.430	25.4		25.4	48.0	

Result:
Limit kept

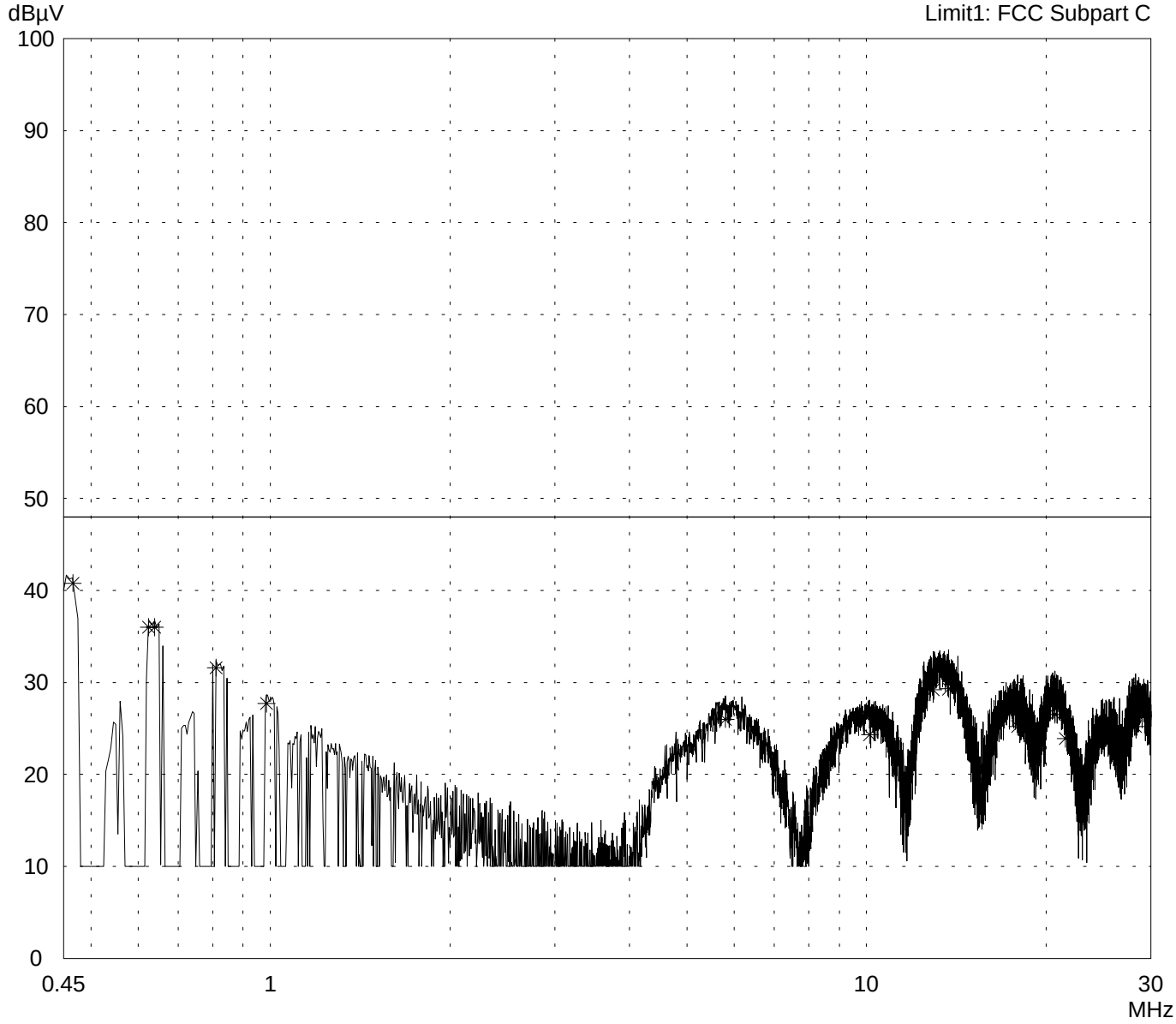
Project file:
56305-10552-1

Senton GmbH / EMI/EMC Laboratories / Aeussere Fruehlingsstrasse 45 / D-94315 Straubing / Tel. +49 9421 55220

Conducted Emission Test 450 kHz - 30 MHz
according to FCC Part 15 Subpart C

Model: PC24E-11-FC/R	Mode:
Serial no.: 01UT33300016	- FCC test setup - supply voltage 115 V AC - RF-modem mounted in notebook AT&T Globalyst 200 via PC-card extender Sycard PCCextend 50A - shielding of PC-card extender improved - display switched off - operating with bit rate 11 Mbps - TX mode with f = 2.462 GHz
Applicant: Agere Systems Nederland B.V.	
Test site: Shielded room, cabin no. 2	
Tested on: Linecord EUT (notebook) Phase L1	
Date of test: 08/30/2001 / Operator: R. Heller	
Test performed: automatically / File name:	

Detector: Peak / Final Results: QP	Final results: 20 dB Margin / 25 Subranges



Result: Limit kept	Project file: 56305-10552-1 / Page 79 of 157 Pages

Conducted Emission Test 450 kHz - 30 MHz
according to FCC Part 15 Subpart C

Model:
PC24E-11-FC/R

Serial no.:
01UT33300016

Applicant:
Agere Systems Nederland B.V.

Test site:
Shielded room, cabin no. 2

Tested on:
Linecord EUT (notebook)
Phase L1

Date of test: 08/30/2001
Operator: R. Heller

Test performed: automatically
File name:

Mode:
- FCC test setup
- supply voltage 115 V AC
- RF-modem mounted in notebook AT&T Globalyst 200 via PC-card extender Sycard PCCextend 50A
- shielding of PC-card extender improved
- display switched off

- operating with bit rate 11 Mbps

- TX mode with f = 2.462 GHz

Detector:
Peak / Final Results: QP

Final results:
20 dB Margin 25 Subranges

Frequency MHz	*Reading dBµV*	*Correction factor dB*	*Value dBµV*	*Limit dBµV*	*Limit exceeded*
0.466	40.8		40.8	48.0	
0.625	36.0		36.0	48.0	
0.640	36.0		36.0	48.0	
0.810	31.6		31.6	48.0	
0.985	27.7		27.7	48.0	
5.800	26.0		26.0	48.0	
10.125	24.3		24.3	48.0	
12.940	29.2		29.2	48.0	
13.740	29.3		29.3	48.0	
17.930	25.2		25.2	48.0	
20.700	26.5		26.5	48.0	
21.575	23.9		23.9	48.0	
28.280	25.2		25.2	48.0	

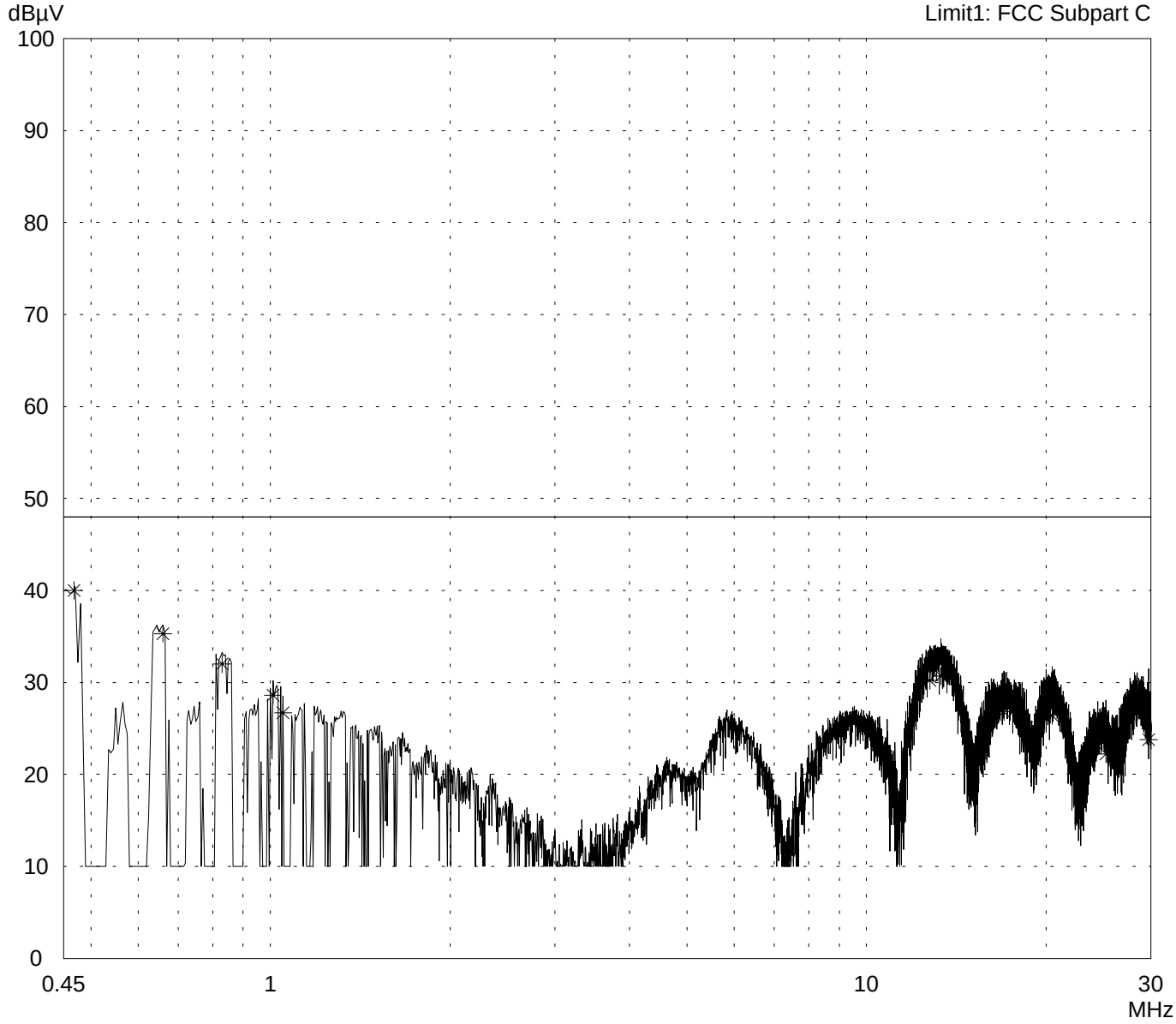
Result:
Limit kept

Project file:
56305-10552-1

Conducted Emission Test 450 kHz - 30 MHz
according to FCC Part 15 Subpart C

Model: PC24E-11-FC/R	Mode:
Serial no.: 01UT33300016	- FCC test setup - supply voltage 115 V AC - RF-modem mounted in notebook AT&T Globalyst 200 via PC-card extender Sycard PCCextend 50A - shielding of PC-card extender improved - display switched off - operating with bit rate 11 Mbps - TX mode with f = 2.462 GHz
Applicant: Agere Systems Nederland B.V.	
Test site: Shielded room, cabin no. 2	
Tested on: Linecord EUT (notebook) Phase N	
Date of test: 08/30/2001 / Operator: R. Heller	
Test performed: automatically / File name:	

Detector: Peak / Final Results: QP	Final results: 20 dB Margin 25 Subranges



Result: Limit kept	Project file: 56305-10552-1 Page 81 of 157 Pages

Conducted Emission Test 450 kHz - 30 MHz
according to FCC Part 15 Subpart C

Model:
PC24E-11-FC/R

Serial no.:
01UT33300016

Applicant:
Agere Systems Nederland B.V.

Test site:
Shielded room, cabin no. 2

Tested on:
Linecord EUT (notebook)
Phase N

Date of test: 08/30/2001
Operator: R. Heller

Test performed: automatically
File name:

Mode:
- FCC test setup
- supply voltage 115 V AC
- RF-modem mounted in notebook AT&T Globalyst 200 via PC-card extender Sycard PCCextend 50A
- shielding of PC-card extender improved
- display switched off

- operating with bit rate 11 Mbps

- TX mode with f = 2.462 GHz

Detector:
Peak / Final Results: QP

Final results:
20 dB Margin 25 Subranges

Frequency MHz	*Reading dBµV*	*Correction factor dB*	*Value dBµV*	*Limit dBµV*	*Limit exceeded*
0.468	40.0		40.0	48.0	
0.660	35.3		35.3	48.0	
0.830	32.0		32.0	48.0	
1.010	28.6		28.6	48.0	
1.050	26.7		26.7	48.0	
12.760	30.2		30.2	48.0	
13.325	30.7		30.7	48.0	
16.985	26.8		26.8	48.0	
20.480	26.4		26.4	48.0	
25.205	22.2		22.2	48.0	
29.755	23.8		23.8	48.0	

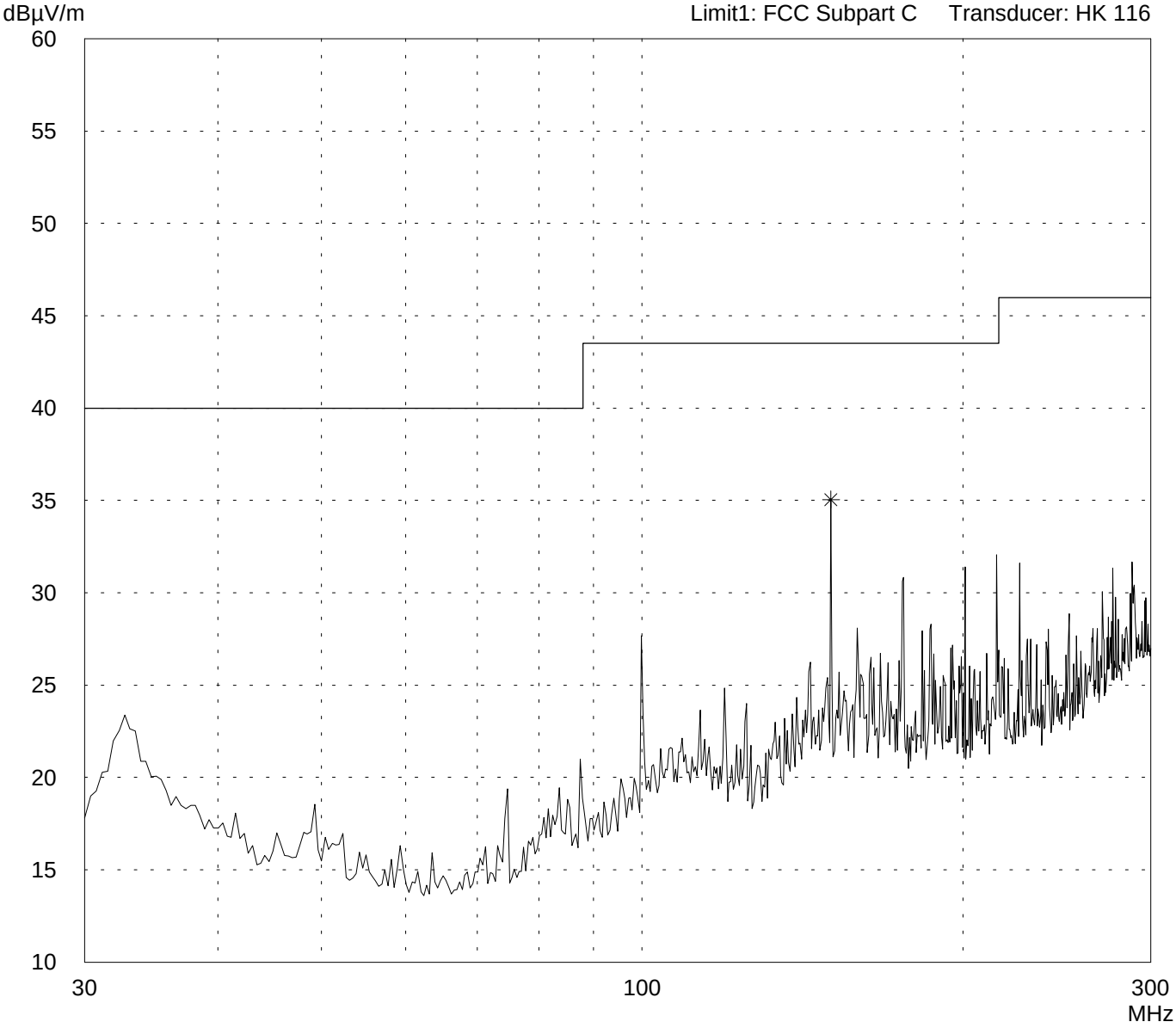
Result:
Limit kept

Project file:
56305-10552-1

Radiated Emission Test 30 MHz - 300 MHz
according to FCC Part 15 Subpart C

Model: PC24E-11-FC/R	Mode:
Serial no.: 01UT33300016	- FCC test setup - supply voltage 115 V AC - RF-modem mounted in notebook AT&T Globalyst 200 via PC-card extender Sycard PCCextend 50A - shielding of PC-card extender improved - display switched off - operating with bit rate 11 Mbps - TX mode with f = 2.412 GHz
Applicant: Agere Systems Nederland B.V.	
Test site: Semi anechoic room, cabin no. 3	
Tested on: Test distance 3 meters Horizontal Polarization	
Date of test: 08/24/2001 / Operator: R. Heller	
Test performed: automatically / File name:	

Detector: Peak	List of values: 10 dB Margin 50 Subranges

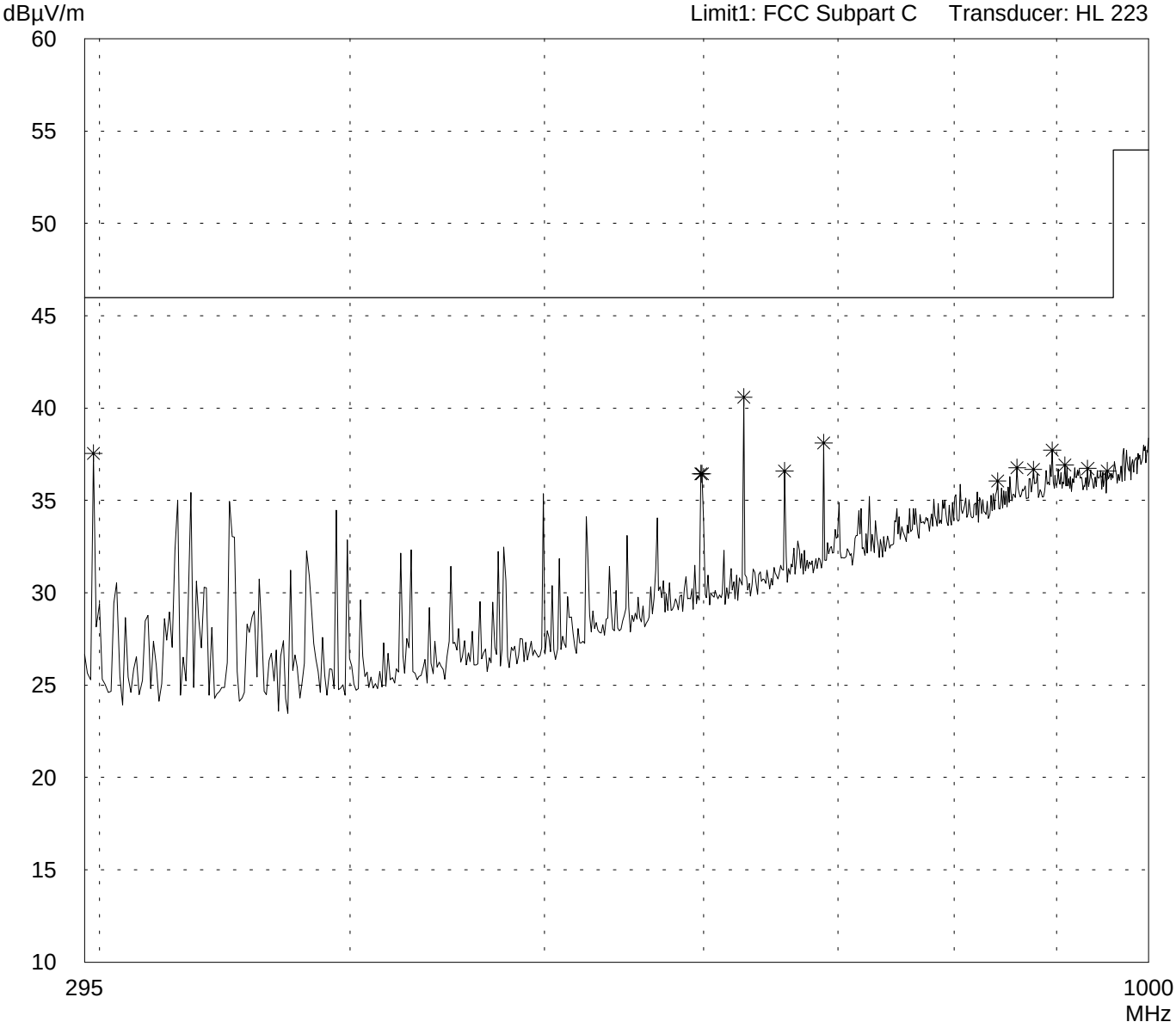


Result: Prescan	Project file: 56305-10552-1

Radiated Emission Test 295 MHz - 1 GHz
according to FCC Part 15 Subpart C

Model: PC24E-11-FC/R	Mode:
Serial no.: 01UT33300016	- FCC test setup - supply voltage 115 V AC - RF-modem mounted in notebook AT&T Globalyst 200 via PC-card extender Sycard PCCextend 50A - shielding of PC-card extender improved - display switched off - operating with bit rate 11 Mbps - TX mode with f = 2.412 GHz
Applicant: Agere Systems Nederland B.V.	
Test site: Semi anechoic room, cabin no. 3	
Tested on: Test distance 3 meters Horizontal Polarization	
Date of test: 08/24/2001 / Operator: R. Heller	
Test performed: automatically / File name:	

Detector: Peak	List of values: 10 dB Margin / 50 Subranges

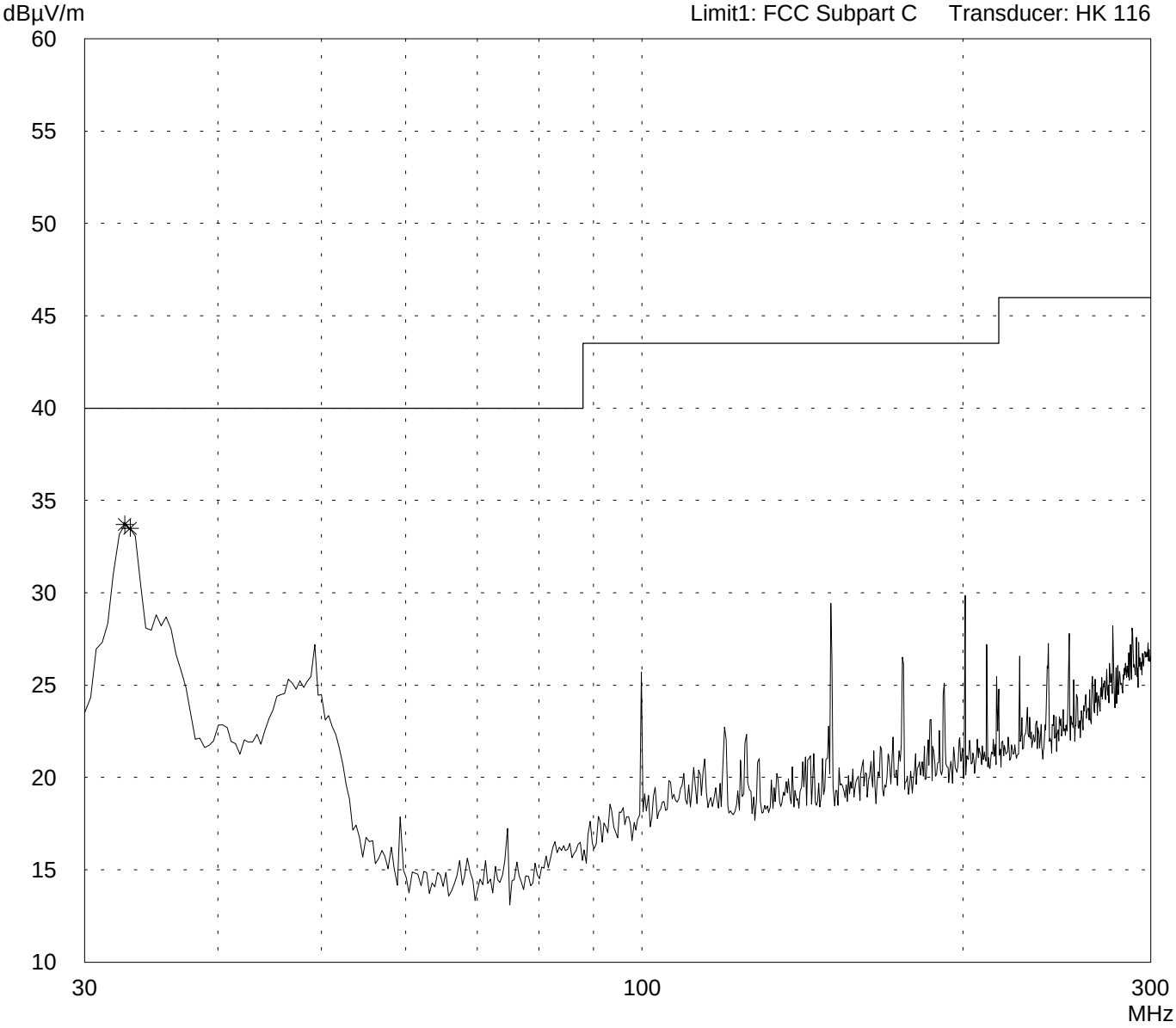


Result: Prescan	Project file: 56305-10552-1

Radiated Emission Test 30 MHz - 300 MHz
according to FCC Part 15 Subpart C

Model: PC24E-11-FC/R	Mode:
Serial no.: 01UT33300016	- FCC test setup - supply voltage 115 V AC - RF-modem mounted in notebook AT&T Globalyst 200 via PC-card extender Sycard PCCextend 50A - shielding of PC-card extender improved - display switched off - operating with bit rate 11 Mbps - TX mode with f = 2.412 GHz
Applicant: Agere Systems Nederland B.V.	
Test site: Semi anechoic room, cabin no. 3	
Tested on: Test distance 3 meters Vertical Polarization	
Date of test: 08/24/2001 / Operator: R. Heller	
Test performed: automatically / File name:	

Detector: Peak	List of values: 10 dB Margin 50 Subranges

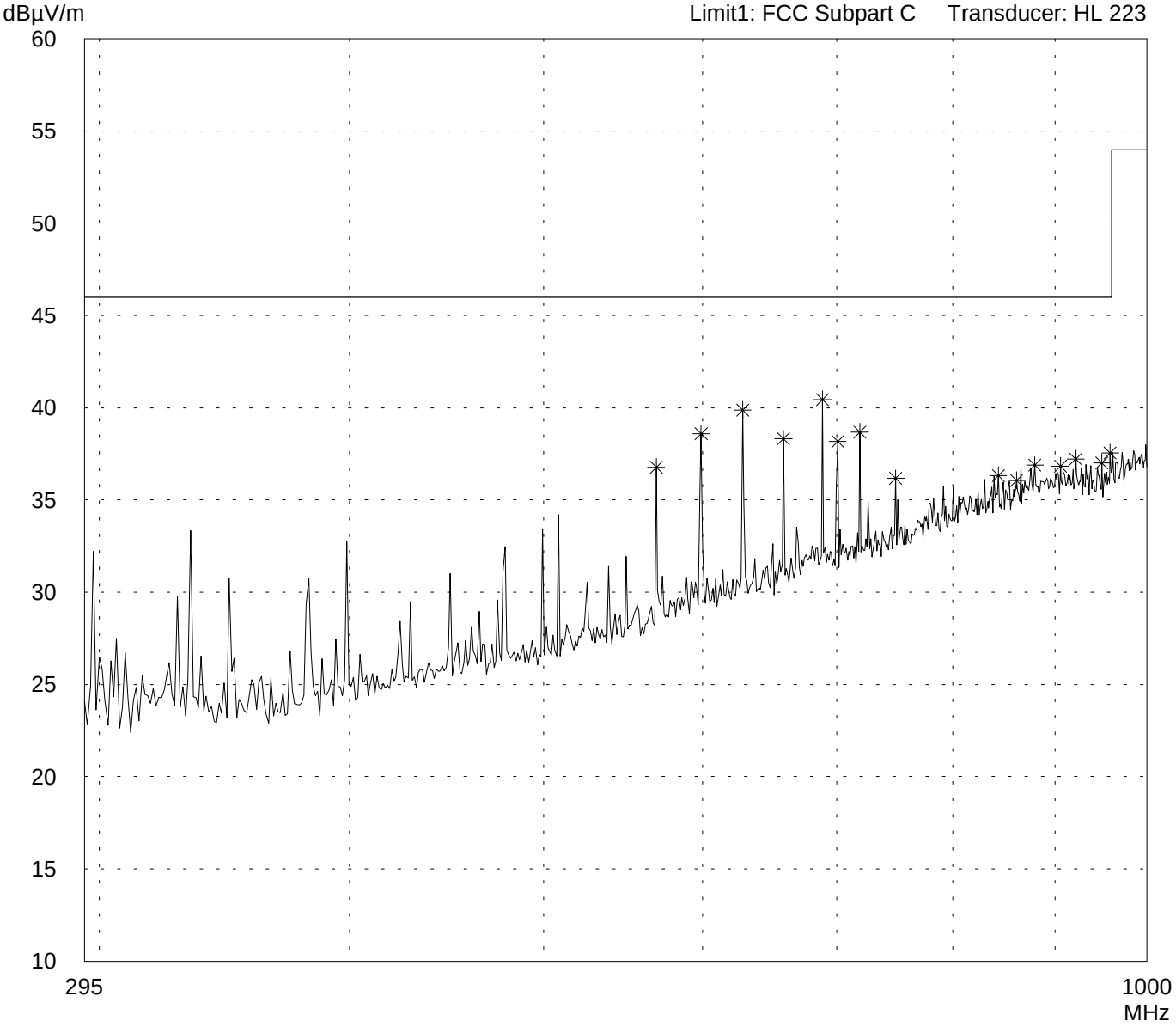


Result: Prescan	Project file: 56305-10552-1

Radiated Emission Test 295 MHz - 1 GHz
according to FCC Part 15 Subpart C

Model: PC24E-11-FC/R	Mode:
Serial no.: 01UT33300016	- FCC test setup - supply voltage 115 V AC - RF-modem mounted in notebook AT&T Globalyst 200 via PC-card extender Sycard PCCextend 50A - shielding of PC-card extender improved - display switched off - operating with bit rate 11 Mbps - TX mode with f = 2.412 GHz
Applicant: Agere Systems Nederland B.V.	
Test site: Semi anechoic room, cabin no. 3	
Tested on: Test distance 3 meters Vertical Polarization	
Date of test: 08/24/2001 / Operator: R. Heller	
Test performed: automatically / File name:	

Detector: Peak	List of values: 10 dB Margin / 50 Subranges

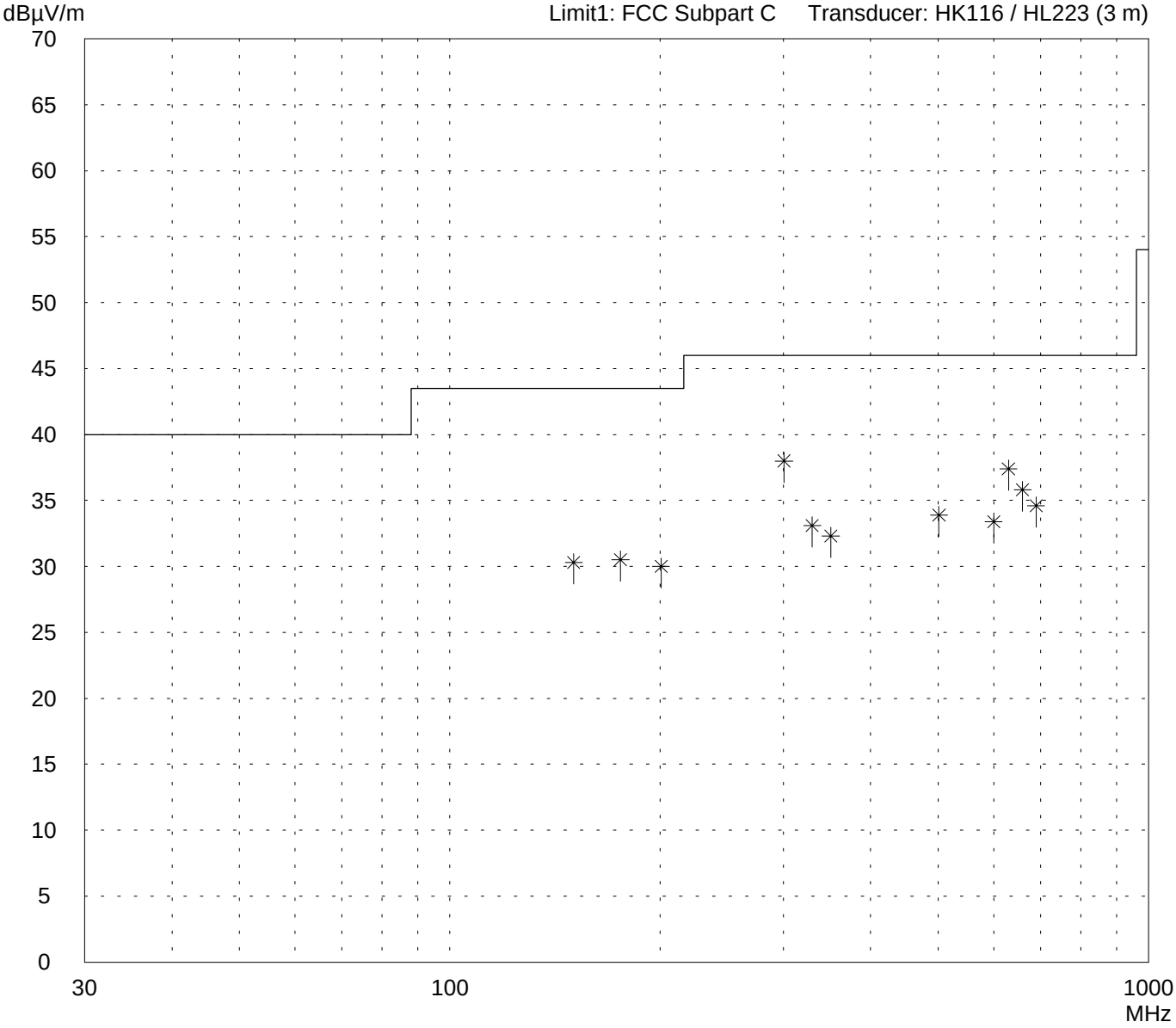


Result: Prescan	Project file: 56305-10552-1

Radiated Emission Test 30 MHz - 1 GHz
according to FCC Part 15 Subpart C

Model: PC24E-11-FC/R	Mode:
Serial no.: 01UT33300016	- FCC test setup - supply voltage 115 V AC - RF-modem mounted in notebook AT&T Globalyst 200 via PC-card extender Sycard PCCextend 50A - shielding of PC-card extender improved - display switched off - operating with bit rate 11 Mbps - TX mode with f = 2.412 GHz
Applicant: Agere Systems Nederland B.V.	
Test site: Open area test-site I	
Tested on: Test distance 3 meters Horizontal Polarization	
Date of test: 08/29/2001 / Operator: R. Heller	
Test performed: by hand / File name:	

Detector: Quasi-Peak	List of values: Selected by hand



Result: Limit kept	Project file: 56305-10552-1

Radiated Emission Test 30 MHz - 1 GHz
according to FCC Part 15 Subpart C

Model:
PC24E-11-FC/R

Serial no.:
01UT33300016

Applicant:
Agere Systems Nederland B.V.

Test site:
Open area test-site I

Tested on:
Test distance 3 meters
Horizontal Polarization

Date of test: 08/29/2001
Operator: R. Heller

Test performed: by hand
File name:

Mode:
- FCC test setup
- supply voltage 115 V AC
- RF-modem mounted in notebook AT&T Globalyst 200 via PC-card extender Sycard PCCextend 50A
- shielding of PC-card extender improved
- display switched off

- operating with bit rate 11 Mbps

- TX mode with f = 2.412 GHz

Detector:
Quasi-Peak

List of values:
Selected by hand

Frequency MHz	*Reading dBµV*	*Correction factor dB*	*Value dBµV/m*	*Limit dBµV/m*	*Limit exceeded*
150.4	14.0	16.3	30.3	43.5	
175.4	13.0	17.5	30.5	43.5	
200.5	11.0	19.0	30.0	43.5	
300.7	19.0	19.0	38.0	46.0	
330.0	13.0	20.1	33.1	46.0	
350.8	11.5	20.8	32.3	46.0	
501.2	9.0	24.9	33.9	46.0	
600.1	5.5	27.9	33.4	46.0	
630.1	8.5	28.9	37.4	46.0	
660.1	6.0	29.8	35.8	46.0	
690.1	4.0	30.6	34.6	46.0	

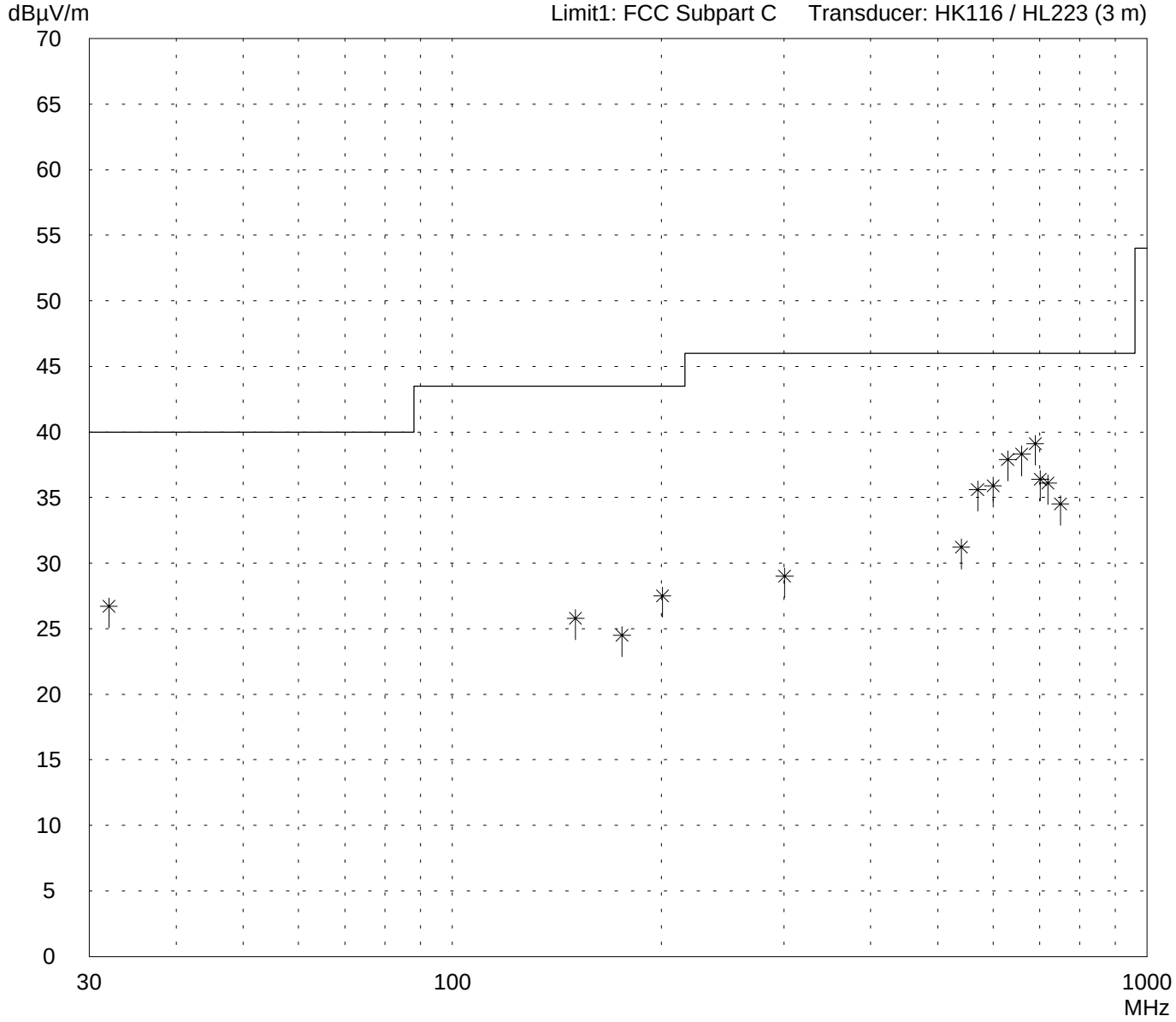
Result:
Limit kept

Project file:
56305-10552-1

Radiated Emission Test 30 MHz - 1 GHz
according to FCC Part 15 Subpart C

Model: PC24E-11-FC/R	Mode:
Serial no.: 01UT33300016	- FCC test setup - supply voltage 115 V AC - RF-modem mounted in notebook AT&T Globalyst 200 via PC-card extender Sycard PCCextend 50A - shielding of PC-card extender improved - display switched off - operating with bit rate 11 Mbps - TX mode with f = 2.412 GHz
Applicant: Agere Systems Nederland B.V.	
Test site: Open area test-site I	
Tested on: Test distance 3 meters Vertical Polarization	
Date of test: 08/29/2001 / Operator: R. Heller	
Test performed: by hand / File name:	

Detector: Quasi-Peak	List of values: Selected by hand



Result: Limit kept	Project file: 56305-10552-1

Senton GmbH / EMI/EMC Laboratories / Aeussere Fruehlingsstrasse 45 / D-94315 Straubing / Tel. +49 9421 55220

Radiated Emission Test 30 MHz - 1 GHz
according to FCC Part 15 Subpart C

Model: PC24E-11-FC/R	Mode:
Serial no.: 01UT33300016	- FCC test setup - supply voltage 115 V AC - RF-modem mounted in notebook AT&T Globalyst 200 via PC-card extender Sycard PCCextend 50A - shielding of PC-card extender improved - display switched off - operating with bit rate 11 Mbps - TX mode with f = 2.412 GHz
Applicant: Agere Systems Nederland B.V.	
Test site: Open area test-site I	
Tested on: Test distance 3 meters Vertical Polarization	
Date of test: 08/29/2001 / Operator: R. Heller	
Test performed: by hand / File name:	

Detector: Quasi-Peak	List of values: Selected by hand

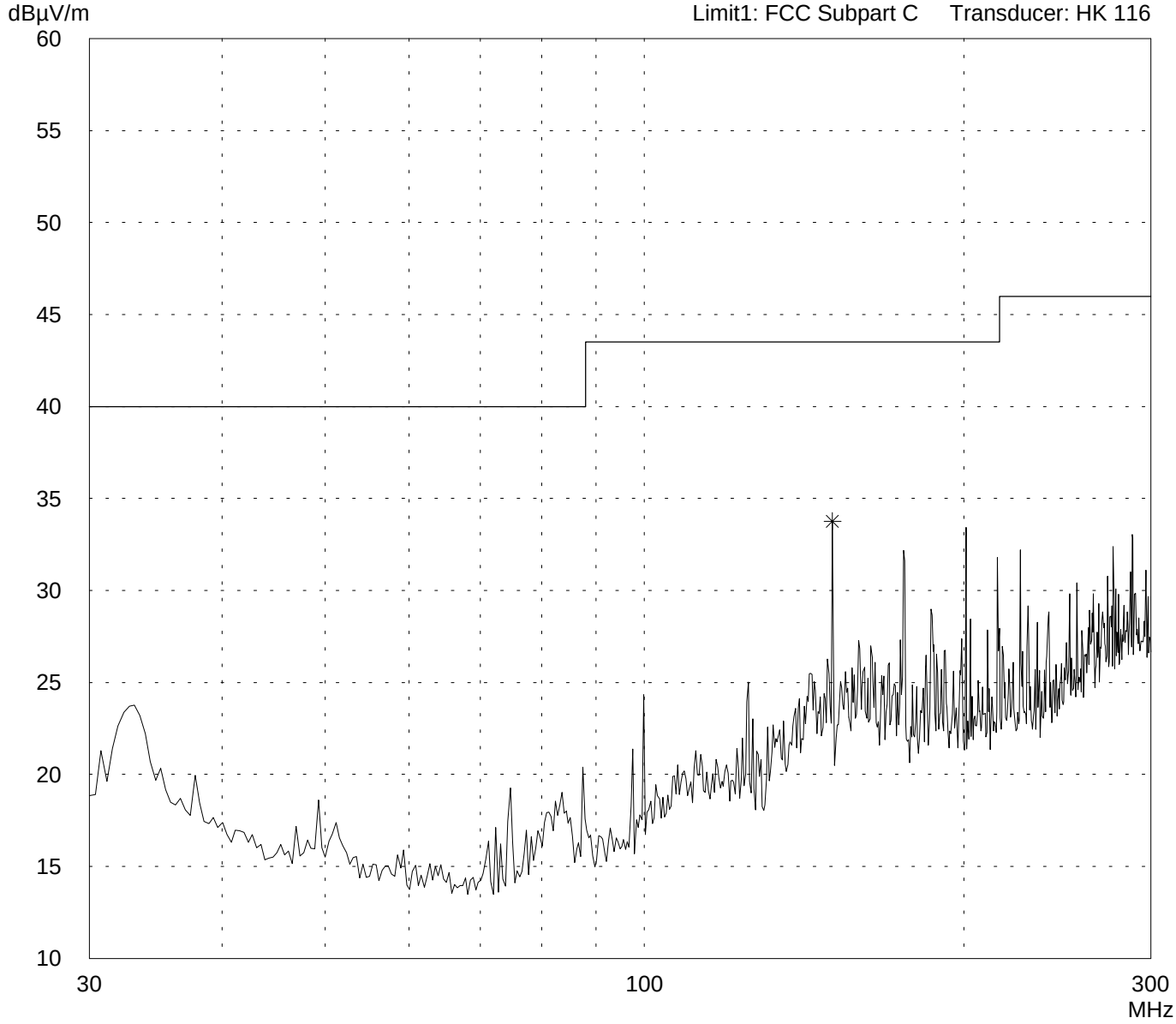
Frequency MHz	*Reading dBµV*	*Correction factor dB*	*Value dBµV/m*	*Limit dBµV/m*	*Limit exceeded*
32.0	12.0	14.7	26.7	40.0	
150.4	9.5	16.3	25.8	43.5	
175.4	7.0	17.5	24.5	43.5	
200.5	8.5	19.0	27.5	43.5	
300.7	10.0	19.0	29.0	46.0	
540.1	5.0	26.2	31.2	46.0	
570.1	8.5	27.1	35.6	46.0	
600.1	8.0	27.9	35.9	46.0	
630.1	9.0	28.9	37.9	46.0	
660.1	8.5	29.8	38.3	46.0	
690.1	8.5	30.6	39.1	46.0	
701.7	5.5	30.9	36.4	46.0	
720.1	5.0	31.1	36.1	46.0	
750.1	3.0	31.5	34.5	46.0	

Result: Limit kept	Project file: 56305-10552-1

Radiated Emission Test 30 MHz - 300 MHz
according to FCC Part 15 Subpart C

Model: PC24E-11-FC/R	Mode:
Serial no.: 01UT33300016	- FCC test setup - supply voltage 115 V AC - RF-modem mounted in notebook AT&T Globalyst 200 via PC-card extender Sycard PCCextend 50A - shielding of PC-card extender improved - display switched off - operating with bit rate 11 Mbps - TX mode with f = 2.442 GHz
Applicant: Agere Systems Nederland B.V.	
Test site: Semi anechoic room, cabin no. 3	
Tested on: Test distance 3 meters Horizontal Polarization	
Date of test: 08/24/2001 / Operator: R. Heller	
Test performed: automatically / File name:	

Detector: Peak	List of values: 10 dB Margin 50 Subranges

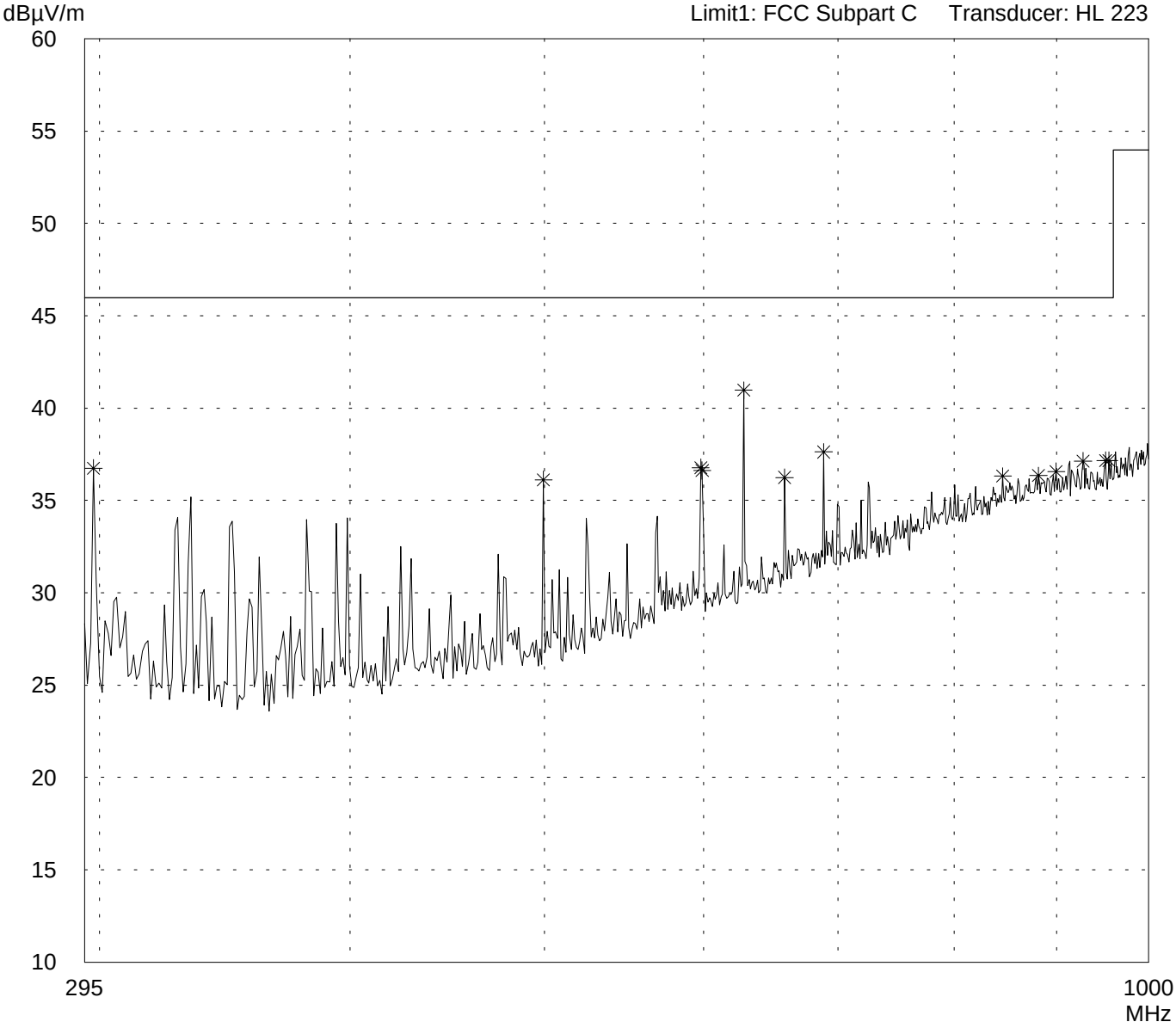


Result: Prescan	Project file: 56305-10552-1

Radiated Emission Test 295 MHz - 1 GHz
according to FCC Part 15 Subpart C

Model: PC24E-11-FC/R	Mode:
Serial no.: 01UT33300016	- FCC test setup - supply voltage 115 V AC - RF-modem mounted in notebook AT&T Globalyst 200 via PC-card extender Sycard PCCextend 50A - shielding of PC-card extender improved - display switched off - operating with bit rate 11 Mbps - TX mode with f = 2.442 GHz
Applicant: Agere Systems Nederland B.V.	
Test site: Semi anechoic room, cabin no. 3	
Tested on: Test distance 3 meters Horizontal Polarization	
Date of test: 08/24/2001 / Operator: R. Heller	
Test performed: automatically / File name:	

Detector: Peak	List of values: 10 dB Margin / 50 Subranges

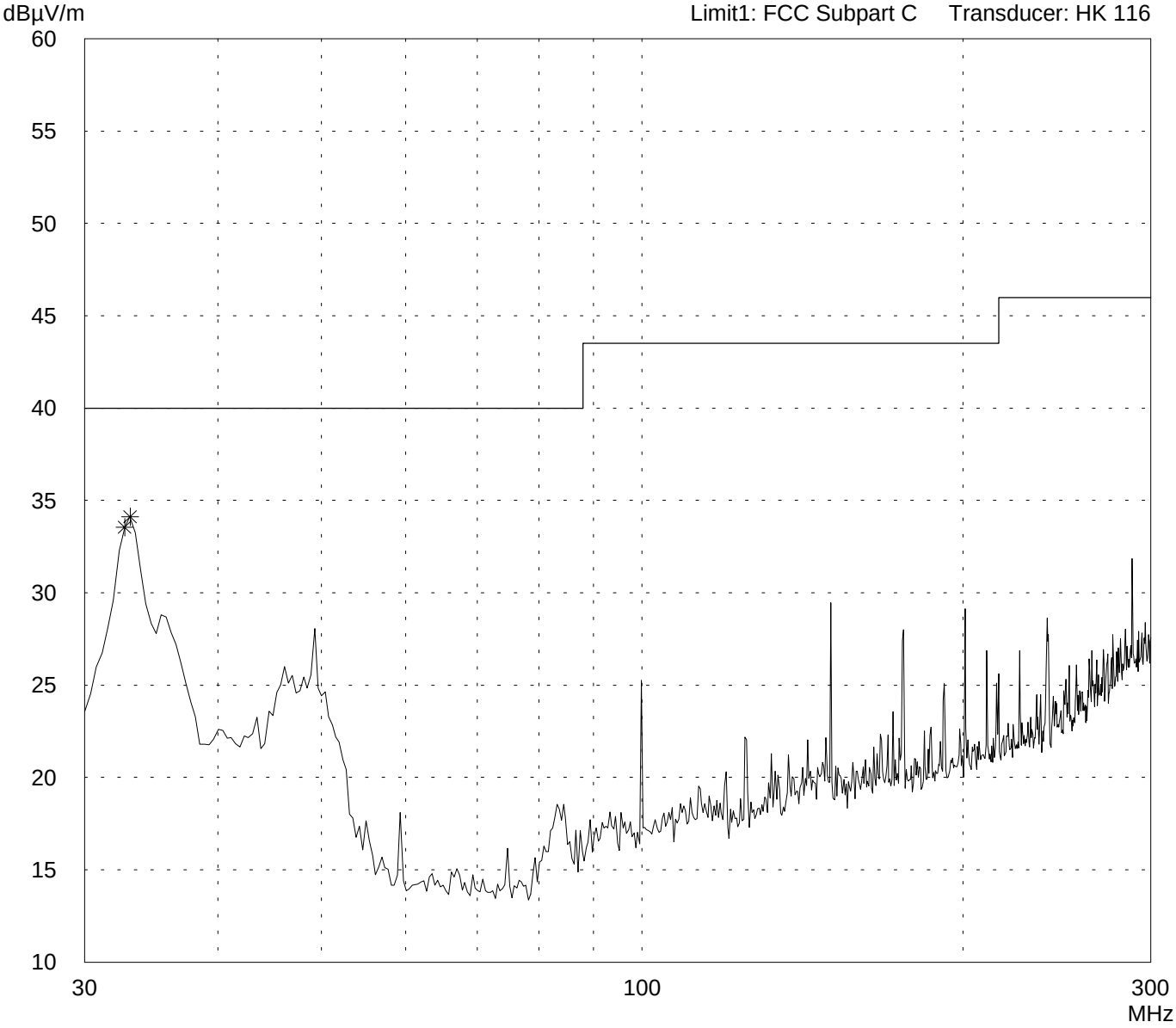


Result: Prescan	Project file: 56305-10552-1

Radiated Emission Test 30 MHz - 300 MHz
according to FCC Part 15 Subpart C

Model: PC24E-11-FC/R	Mode:
Serial no.: 01UT33300016	- FCC test setup - supply voltage 115 V AC - RF-modem mounted in notebook AT&T Globalyst 200 via PC-card extender Sycard PCCextend 50A - shielding of PC-card extender improved - display switched off - operating with bit rate 11 Mbps - TX mode with f = 2.442 GHz
Applicant: Agere Systems Nederland B.V.	
Test site: Semi anechoic room, cabin no. 3	
Tested on: Test distance 3 meters Vertical Polarization	
Date of test: 08/24/2001 / Operator: R. Heller	
Test performed: automatically / File name:	

Detector: Peak	List of values: 10 dB Margin 50 Subranges

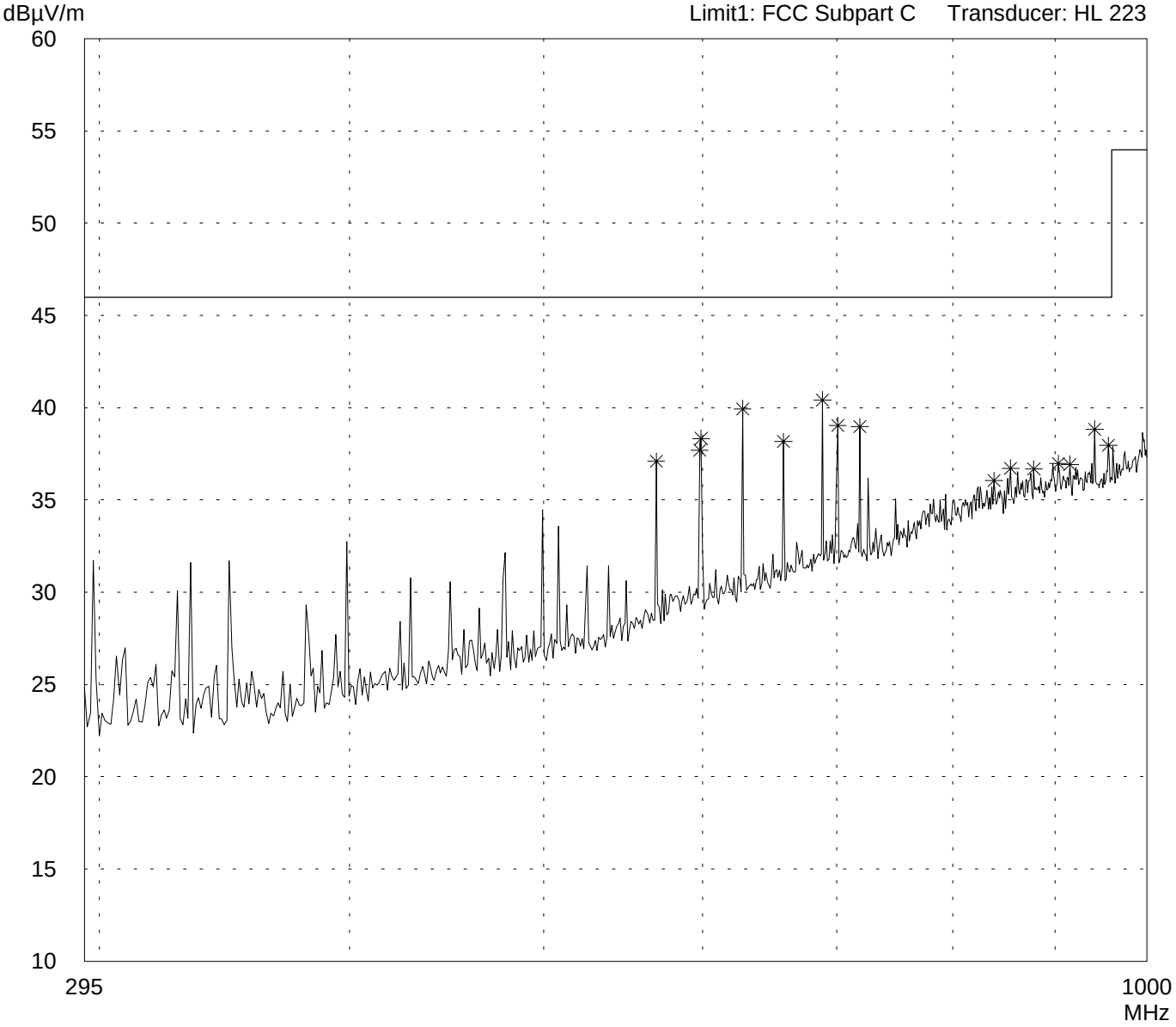


Result: Prescan	Project file: 56305-10552-1

Radiated Emission Test 295 MHz - 1 GHz
according to FCC Part 15 Subpart C

Model: PC24E-11-FC/R	Mode:
Serial no.: 01UT33300016	- FCC test setup - supply voltage 115 V AC - RF-modem mounted in notebook AT&T Globalyst 200 via PC-card extender Sycard PCCextend 50A - shielding of PC-card extender improved - display switched off - operating with bit rate 11 Mbps - TX mode with f = 2.442 GHz
Applicant: Agere Systems Nederland B.V.	
Test site: Semi anechoic room, cabin no. 3	
Tested on: Test distance 3 meters Vertical Polarization	
Date of test: 08/24/2001 / Operator: R. Heller	
Test performed: automatically / File name:	

Detector: Peak	List of values: 10 dB Margin / 50 Subranges

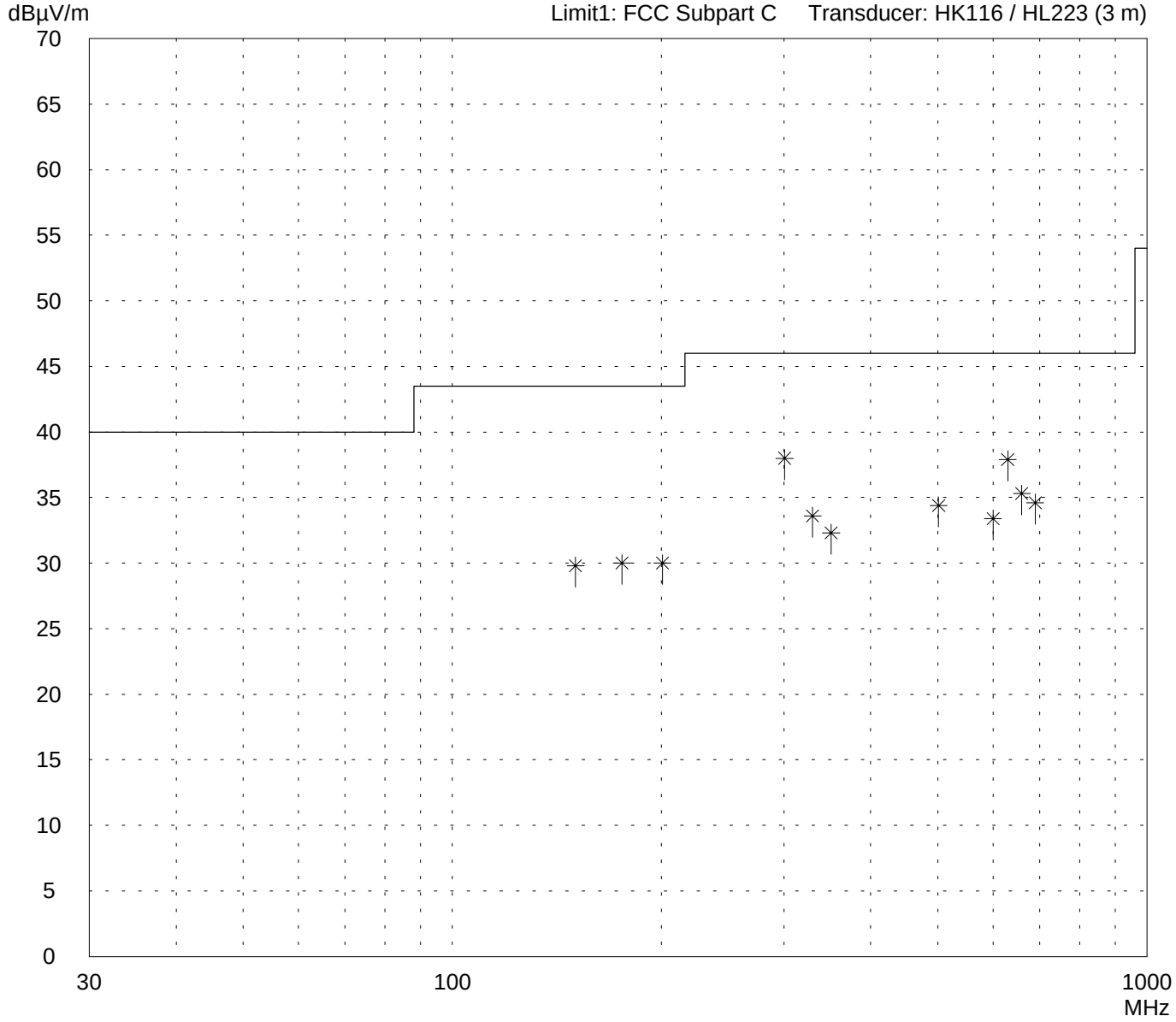


Result: Prescan	Project file: 56305-10552-1

Radiated Emission Test 30 MHz - 1 GHz
according to FCC Part 15 Subpart C

Model: PC24E-11-FC/R	Mode:
Serial no.: 01UT33300016	- FCC test setup - supply voltage 115 V AC - RF-modem mounted in notebook AT&T Globalyst 200 via PC-card extender Sycard PCCextend 50A - shielding of PC-card extender improved - display switched off - operating with bit rate 11 Mbps - TX mode with f = 2.442 GHz
Applicant: Agere Systems Nederland B.V.	
Test site: Open area test-site I	
Tested on: Test distance 3 meters Horizontal Polarization	
Date of test: 08/29/2001 / Operator: R. Heller	
Test performed: by hand / File name:	

Detector: Quasi-Peak	List of values: Selected by hand



Result: Limit kept	Project file: 56305-10552-1

Senton GmbH / EMI/EMC Laboratories / Aeussere Fruehlingsstrasse 45 / D-94315 Straubing / Tel. +49 9421 55220

Radiated Emission Test 30 MHz - 1 GHz
according to FCC Part 15 Subpart C

Model:
PC24E-11-FC/R

Serial no.:
01UT33300016

Applicant:
Agere Systems Nederland B.V.

Test site:
Open area test-site I

Tested on:
Test distance 3 meters
Horizontal Polarization

Date of test: 08/29/2001
Operator: R. Heller

Test performed: by hand
File name:

Mode:
- FCC test setup
- supply voltage 115 V AC
- RF-modem mounted in notebook AT&T Globalyst 200 via PC-card extender Sycard PCCextend 50A
- shielding of PC-card extender improved
- display switched off

- operating with bit rate 11 Mbps

- TX mode with f = 2.442 GHz

Detector:
Quasi-Peak

List of values:
Selected by hand

Frequency MHz	*Reading dBµV*	*Correction factor dB*	*Value dBµV/m*	*Limit dBµV/m*	*Limit exceeded*
150.4	13.5	16.3	29.8	43.5	
175.4	12.5	17.5	30.0	43.5	
200.5	11.0	19.0	30.0	43.5	
300.7	19.0	19.0	38.0	46.0	
330.0	13.5	20.1	33.6	46.0	
350.8	11.5	20.8	32.3	46.0	
501.2	9.5	24.9	34.4	46.0	
600.1	5.5	27.9	33.4	46.0	
630.1	9.0	28.9	37.9	46.0	
660.1	5.5	29.8	35.3	46.0	
690.1	4.0	30.6	34.6	46.0	

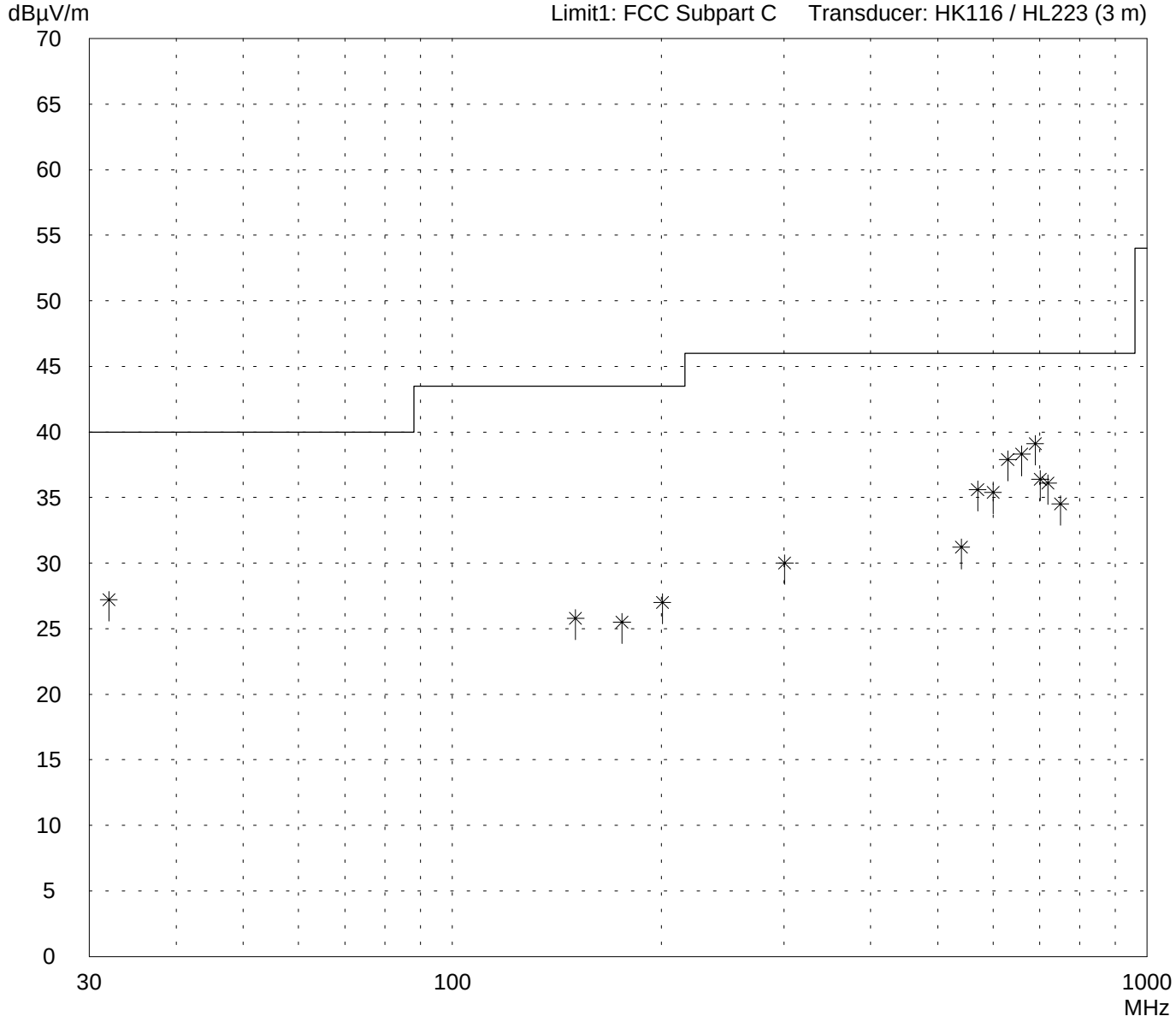
Result:
Limit kept

Project file:
56305-10552-1

Radiated Emission Test 30 MHz - 1 GHz
according to FCC Part 15 Subpart C

Model: PC24E-11-FC/R	Mode:
Serial no.: 01UT33300016	- FCC test setup - supply voltage 115 V AC - RF-modem mounted in notebook AT&T Globalyst 200 via PC-card extender Sycard PCCextend 50A - shielding of PC-card extender improved - display switched off - operating with bit rate 11 Mbps - TX mode with f = 2.442 GHz
Applicant: Agere Systems Nederland B.V.	
Test site: Open area test-site I	
Tested on: Test distance 3 meters Vertical Polarization	
Date of test: 08/29/2001 / Operator: R. Heller	
Test performed: by hand / File name:	

Detector: Quasi-Peak	List of values: Selected by hand



Result: Limit kept	Project file: 56305-10552-1

Senton GmbH / EMI/EMC Laboratories / Aeussere Fruehlingsstrasse 45 / D-94315 Straubing / Tel. +49 9421 55220

Radiated Emission Test 30 MHz - 1 GHz
according to FCC Part 15 Subpart C

Model:
PC24E-11-FC/R

Serial no.:
01UT33300016

Applicant:
Agere Systems Nederland B.V.

Test site:
Open area test-site I

Tested on:
Test distance 3 meters
Vertical Polarization

Date of test: 08/29/2001

Operator: R. Heller

Test performed: by hand

File name:

Mode:
- FCC test setup
- supply voltage 115 V AC
- RF-modem mounted in notebook AT&T Globalyst 200 via PC-card extender Sycard PCCextend 50A
- shielding of PC-card extender improved
- display switched off

- operating with bit rate 11 Mbps

- TX mode with f = 2.442 GHz

Detector: Quasi-Peak

List of values: Selected by hand

Frequency MHz	*Reading dBµV*	*Correction factor dB*	*Value dBµV/m*	*Limit dBµV/m*	*Limit exceeded*
32.0	12.5	14.7	27.2	40.0	
150.4	9.5	16.3	25.8	43.5	
175.4	8.0	17.5	25.5	43.5	
200.5	8.0	19.0	27.0	43.5	
300.7	11.0	19.0	30.0	46.0	
540.1	5.0	26.2	31.2	46.0	
570.1	8.5	27.1	35.6	46.0	
600.1	7.5	27.9	35.4	46.0	
630.1	9.0	28.9	37.9	46.0	
660.1	8.5	29.8	38.3	46.0	
690.1	8.5	30.6	39.1	46.0	
701.7	5.5	30.9	36.4	46.0	
720.1	5.0	31.1	36.1	46.0	
750.1	3.0	31.5	34.5	46.0	

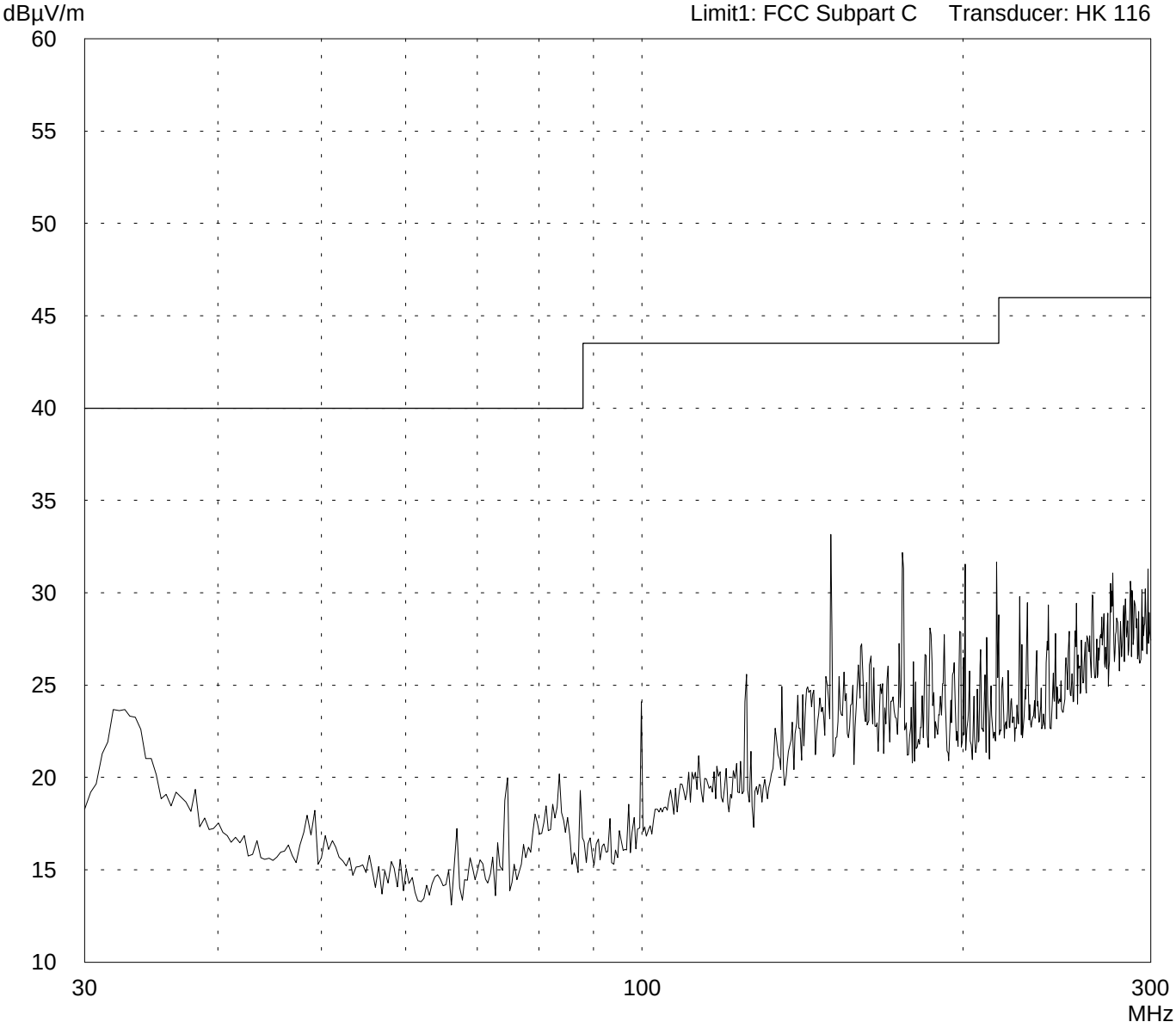
Result: Limit kept

Project file: 56305-10552-1

Radiated Emission Test 30 MHz - 300 MHz
according to FCC Part 15 Subpart C

Model: PC24E-11-FC/R	Mode:
Serial no.: 01UT33300016	- FCC test setup - supply voltage 115 V AC - RF-modem mounted in notebook AT&T Globalyst 200 via PC-card extender Sycard PCCextend 50A - shielding of PC-card extender improved - display switched off - operating with bit rate 11 Mbps - TX mode with f = 2.462 GHz
Applicant: Agere Systems Nederland B.V.	
Test site: Semi anechoic room, cabin no. 3	
Tested on: Test distance 3 meters Horizontal Polarization	
Date of test: 08/24/2001 / Operator: R. Heller	
Test performed: automatically / File name:	

Detector: Peak	List of values: 10 dB Margin 50 Subranges

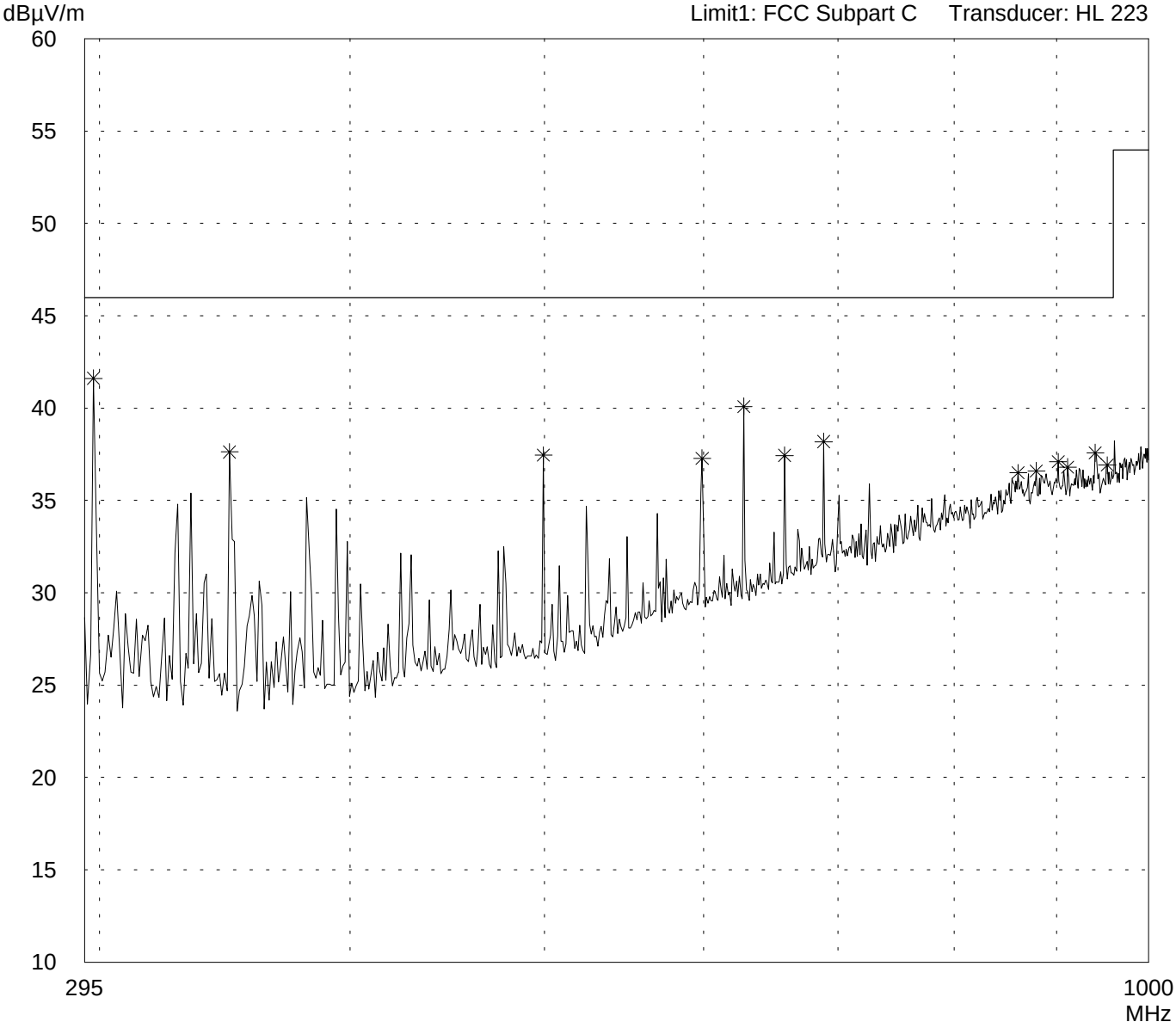


Result: Prescan	Project file: 56305-10552-1

Radiated Emission Test 295 MHz - 1 GHz
according to FCC Part 15 Subpart C

Model: PC24E-11-FC/R	Mode:
Serial no.: 01UT33300016	- FCC test setup - supply voltage 115 V AC - RF-modem mounted in notebook AT&T Globalyst 200 via PC-card extender Sycard PCCextend 50A - shielding of PC-card extender improved - display switched off - operating with bit rate 11 Mbps - TX mode with f = 2.462 GHz
Applicant: Agere Systems Nederland B.V.	
Test site: Semi anechoic room, cabin no. 3	
Tested on: Test distance 3 meters Horizontal Polarization	
Date of test: 08/24/2001 / Operator: R. Heller	
Test performed: automatically / File name:	

Detector: Peak	List of values: 10 dB Margin / 50 Subranges

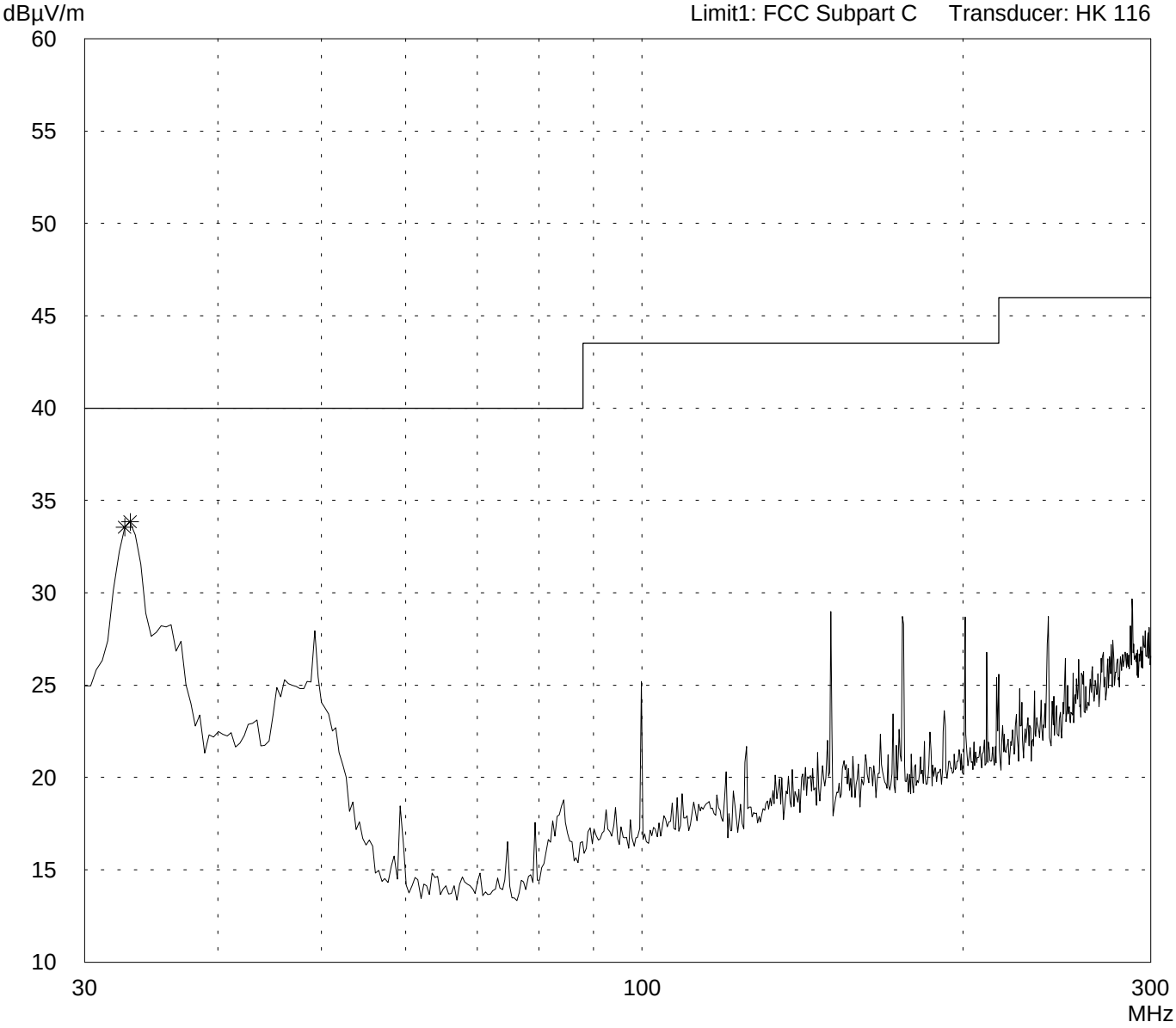


Result: Prescan	Project file: 56305-10552-1

Radiated Emission Test 30 MHz - 300 MHz
according to FCC Part 15 Subpart C

Model: PC24E-11-FC/R	Mode:
Serial no.: 01UT33300016	- FCC test setup - supply voltage 115 V AC - RF-modem mounted in notebook AT&T Globalyst 200 via PC-card extender Sycard PCCextend 50A - shielding of PC-card extender improved - display switched off - operating with bit rate 11 Mbps - TX mode with f = 2.462 GHz
Applicant: Agere Systems Nederland B.V.	
Test site: Semi anechoic room, cabin no. 3	
Tested on: Test distance 3 meters Vertical Polarization	
Date of test: 08/24/2001 / Operator: R. Heller	
Test performed: automatically / File name:	

Detector: Peak	List of values: 10 dB Margin 50 Subranges



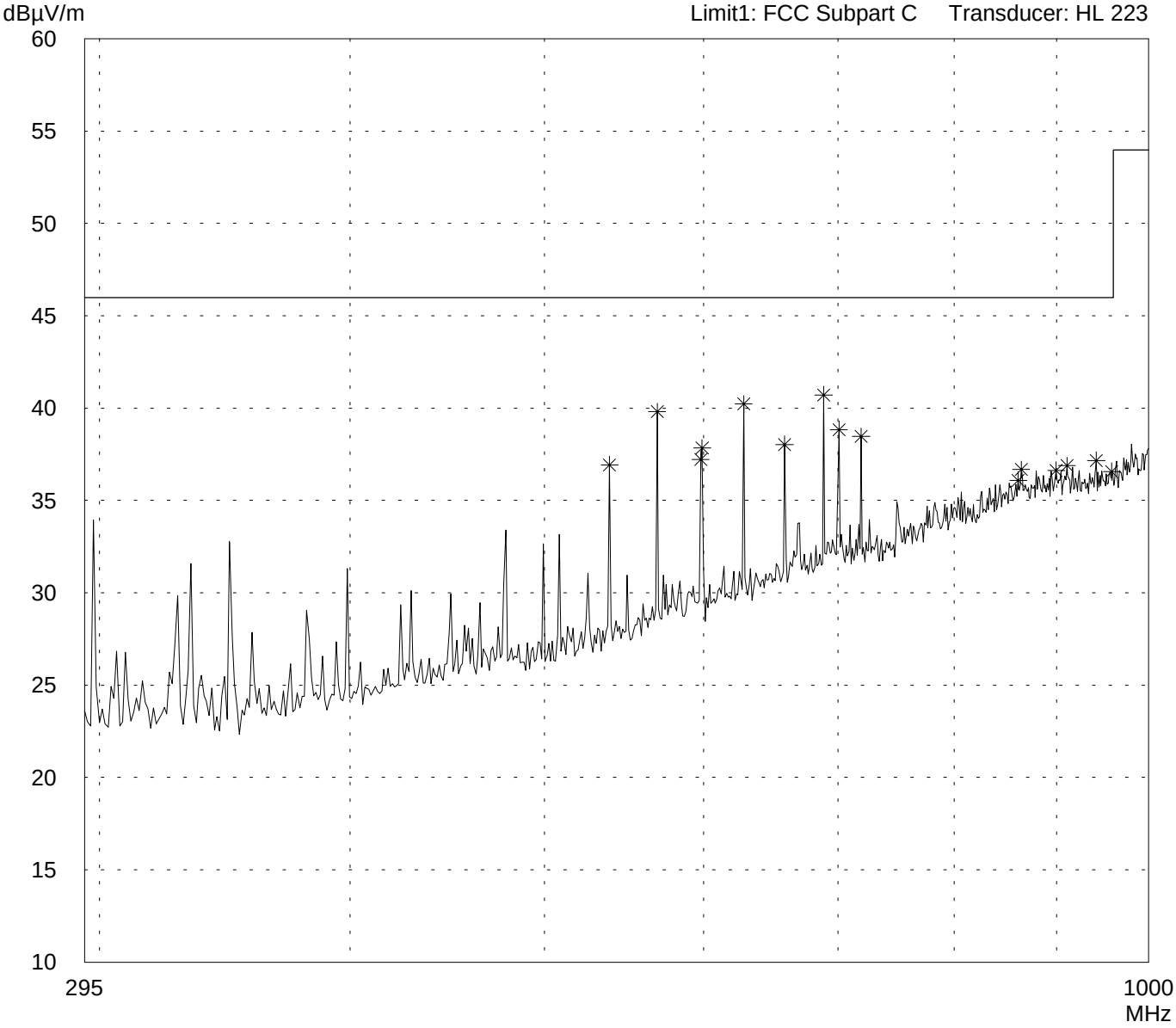
Result: Prescan	Project file: 56305-10552-1

Senton GmbH / EMI/EMC Laboratories / Aeussere Fruehlingsstrasse 45 / D-94315 Straubing / Tel. +49 9421 55220

Radiated Emission Test 295 MHz - 1 GHz
according to FCC Part 15 Subpart C

Model: PC24E-11-FC/R	Mode:
Serial no.: 01UT33300016	- FCC test setup - supply voltage 115 V AC - RF-modem mounted in notebook AT&T Globalyst 200 via PC-card extender Sycard PCCextend 50A - shielding of PC-card extender improved - display switched off - operating with bit rate 11 Mbps - TX mode with f = 2.462 GHz
Applicant: Agere Systems Nederland B.V.	
Test site: Semi anechoic room, cabin no. 3	
Tested on: Test distance 3 meters Vertical Polarization	
Date of test: 08/24/2001 / Operator: R. Heller	
Test performed: automatically / File name:	

Detector: Peak	List of values: 10 dB Margin / 50 Subranges

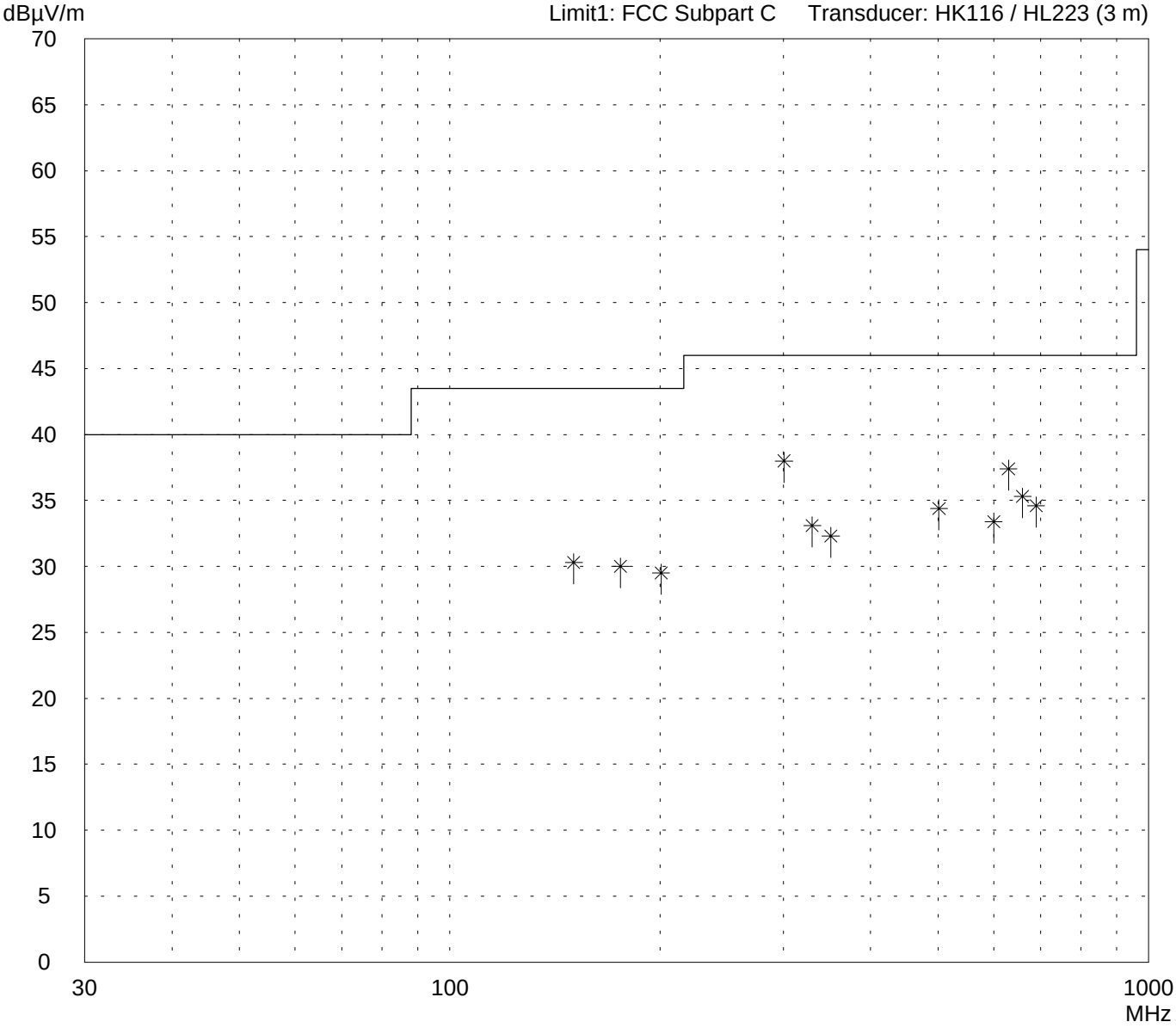


Result: Prescan	Project file: 56305-10552-1

Radiated Emission Test 30 MHz - 1 GHz
according to FCC Part 15 Subpart C

Model: PC24E-11-FC/R	Mode:
Serial no.: 01UT33300016	- FCC test setup - supply voltage 115 V AC - RF-modem mounted in notebook AT&T Globalyst 200 via PC-card extender Sycard PCCextend 50A - shielding of PC-card extender improved - display switched off - operating with bit rate 11 Mbps - TX mode with f = 2.462 GHz
Applicant: Agere Systems Nederland B.V.	
Test site: Open area test-site I	
Tested on: Test distance 3 meters Horizontal Polarization	
Date of test: 08/29/2001 / Operator: R. Heller	
Test performed: by hand / File name:	

Detector: Quasi-Peak	List of values: Selected by hand



Result: Limit kept	Project file: 56305-10552-1

Senton GmbH / EMI/EMC Laboratories / Aeussere Fruehlingsstrasse 45 / D-94315 Straubing / Tel. +49 9421 55220

Radiated Emission Test 30 MHz - 1 GHz
according to FCC Part 15 Subpart C

Model:
PC24E-11-FC/R

Serial no.:
01UT33300016

Applicant:
Agere Systems Nederland B.V.

Test site:
Open area test-site I

Tested on:
Test distance 3 meters
Horizontal Polarization

Date of test: 08/29/2001
Operator: R. Heller

Test performed: by hand
File name:

Mode:
- FCC test setup
- supply voltage 115 V AC
- RF-modem mounted in notebook AT&T Globalyst 200 via PC-card extender Sycard PCCextend 50A
- shielding of PC-card extender improved
- display switched off

- operating with bit rate 11 Mbps

- TX mode with f = 2.462 GHz

Detector:
Quasi-Peak

List of values:
Selected by hand

Frequency MHz	*Reading dBµV*	*Correction factor dB*	*Value dBµV/m*	*Limit dBµV/m*	*Limit exceeded*
150.4	14.0	16.3	30.3	43.5	
175.4	12.5	17.5	30.0	43.5	
200.5	10.5	19.0	29.5	43.5	
300.7	19.0	19.0	38.0	46.0	
330.0	13.0	20.1	33.1	46.0	
350.8	11.5	20.8	32.3	46.0	
501.2	9.5	24.9	34.4	46.0	
600.1	5.5	27.9	33.4	46.0	
630.1	8.5	28.9	37.4	46.0	
660.1	5.5	29.8	35.3	46.0	
690.1	4.0	30.6	34.6	46.0	

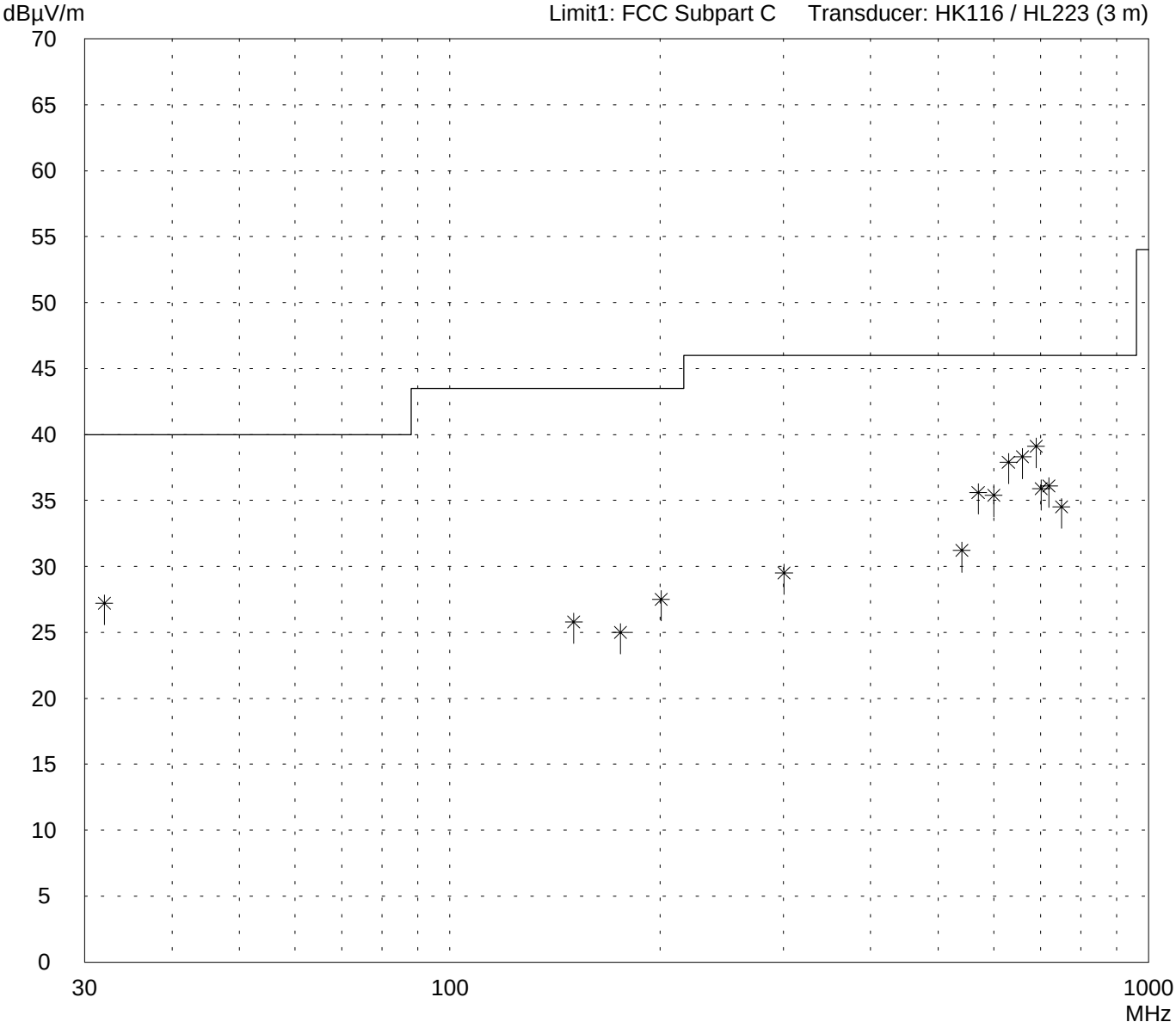
Result:
Limit kept

Project file:
56305-10552-1

Radiated Emission Test 30 MHz - 1 GHz
according to FCC Part 15 Subpart C

Model: PC24E-11-FC/R	Mode:
Serial no.: 01UT33300016	- FCC test setup - supply voltage 115 V AC - RF-modem mounted in notebook AT&T Globalyst 200 via PC-card extender Sycard PCCextend 50A - shielding of PC-card extender improved - display switched off - operating with bit rate 11 Mbps - TX mode with f = 2.462 GHz
Applicant: Agere Systems Nederland B.V.	
Test site: Open area test-site I	
Tested on: Test distance 3 meters Vertical Polarization	
Date of test: 08/29/2001 / Operator: R. Heller	
Test performed: by hand / File name:	

Detector: Quasi-Peak	List of values: Selected by hand



Result: Limit kept	Project file: 56305-10552-1

Senton GmbH / EMI/EMC Laboratories / Aeussere Fruehlingsstrasse 45 / D-94315 Straubing / Tel. +49 9421 55220

Radiated Emission Test 30 MHz - 1 GHz
according to FCC Part 15 Subpart C

Model: PC24E-11-FC/R	Mode:
Serial no.: 01UT33300016	- FCC test setup - supply voltage 115 V AC - RF-modem mounted in notebook AT&T Globalyst 200 via PC-card extender Sycard PCCextend 50A - shielding of PC-card extender improved - display switched off - operating with bit rate 11 Mbps - TX mode with f = 2.462 GHz
Applicant: Agere Systems Nederland B.V.	
Test site: Open area test-site I	
Tested on: Test distance 3 meters Vertical Polarization	
Date of test: 08/29/2001 / Operator: R. Heller	
Test performed: by hand / File name:	

Detector: Quasi-Peak	List of values: Selected by hand

Frequency MHz	*Reading dBµV*	*Correction factor dB*	*Value dBµV/m*	*Limit dBµV/m*	*Limit exceeded*
32.0	12.5	14.7	27.2	40.0	
150.4	9.5	16.3	25.8	43.5	
175.4	7.5	17.5	25.0	43.5	
200.5	8.5	19.0	27.5	43.5	
300.7	10.5	19.0	29.5	46.0	
540.1	5.0	26.2	31.2	46.0	
570.1	8.5	27.1	35.6	46.0	
600.1	7.5	27.9	35.4	46.0	
630.1	9.0	28.9	37.9	46.0	
660.1	8.5	29.8	38.3	46.0	
690.1	8.5	30.6	39.1	46.0	
701.7	5.0	30.9	35.9	46.0	
720.1	5.0	31.1	36.1	46.0	
750.1	3.0	31.5	34.5	46.0	

Result: Limit kept	Project file: 56305-10552-1

Radiated Emission 1 GHz - 25 GHz
according to FCC Part 15 Subpart C

Model: PC24E-11-FC/R
Type: RF-modem for wireless LAN
Serial No.: 01UT33300016
Applicant: Agere Systems Nederland B.V.
Test-site: Semi anechoic room
Test distance: 3 meters
Date of test: 08/30/2000
Operator: R. Heller

Mode:
- FCC test setup
- supply voltage 115 V AC
- RF-modem mounted in notebook AT&T Globalyst 200 via PC-card extender Sycard PCCextend 50A
- shielding of PC-card extender improved

- operating with bit rate 11 Mbps

- TX mode with f = 2.412 GHz

Detector: Peak

Frequency [GHz]	Polarization	Analyzer-reading [dBµV]	Generator-level [dBm]	Cable loss [dB]	Antenna-correction [dB]	Fieldstrength [dBµV/m]	Limit [dBµV/m]
2.3900	horizontal	56.4		0.6	20.7	56.4	74
2.3995	horizontal	72.5		0.6	20.7	72.5	NRB
2.4000	horizontal	71.2		0.6	20.7	71.2	NRB
2.4020	horizontal	73.2		0.6	20.7	73.2	OB
2.4115	horizontal	106.2		0.6	20.7	106.2	OB
2.4283	horizontal	73.8		0.6	20.7	73.8	OB
2.6795	vertical	53.5		0.6	23.7	53.5	74
4.8282	vertical	49.6	-85.1		27.3	49.2	74

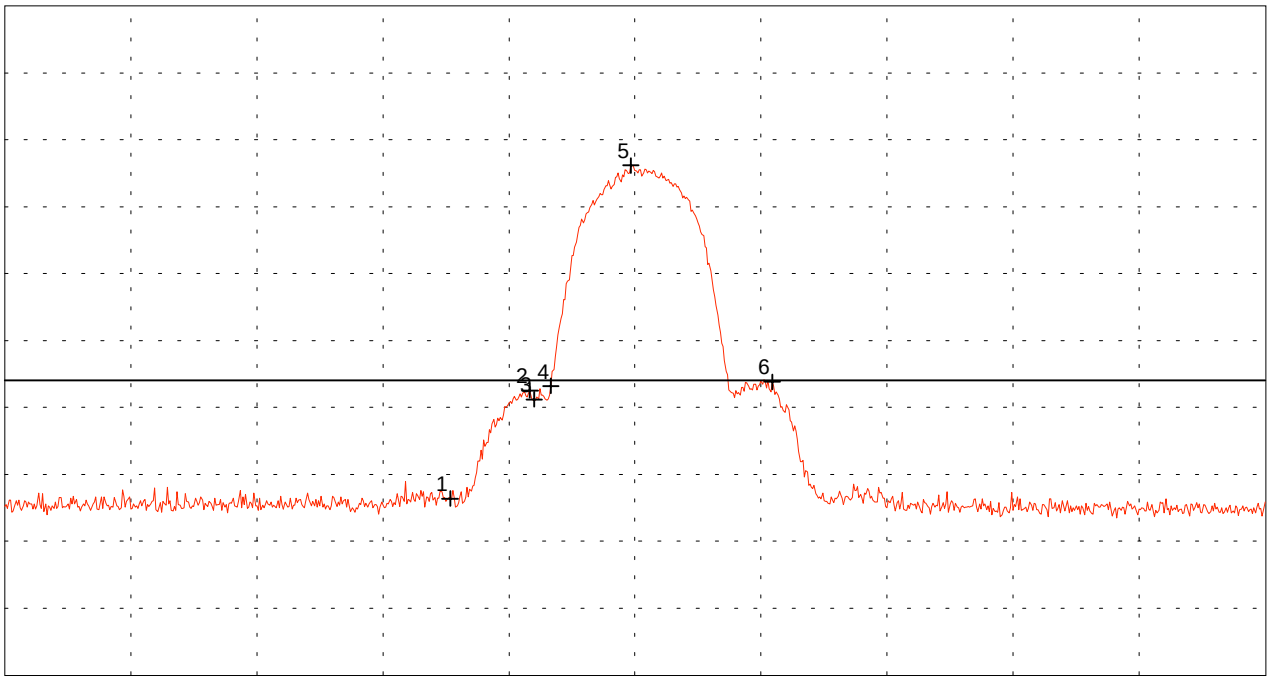
Note: OB means "operation band" (2400 - 2483.5 MHz); in this case limit is 1 W (measured conducted with power meter).
NRB means "non restricted band"; in this case limit is 20 dB below maximum in-band-power equivalent to 106.2 dBµV/m.

Result: The limits are kept

Radiated Emission 1 GHz - 25 GHz acc. to FCC Part 15 Subpart C

Model: PC24E-11-FC/R	Mode: - FCC test setup - supply voltage 115 V AC - RF-modem mounted in notebook AT&T Globalyst 200 via PC-card extender Sycard PCCextend 50A - shielding of PC-card extender improved - operating with bit rate 11 Mbps - TX mode with f = 2.412 GHz Test distance 3 meters Channel A (red) = horizontal polarization
Serial No.: 01UT33300016	
Applicant: Agere Systems Nederland B.V.	

Ref.Level 130 dBµV/m ATT 5 dB Ref. Offset 21.3 dB
10 dB/Div.



Start 2.337 GHz Stop 2.487 GHz
RBW 1 MHz VBW 1 MHz SWP 20 ms

Multi Marker List

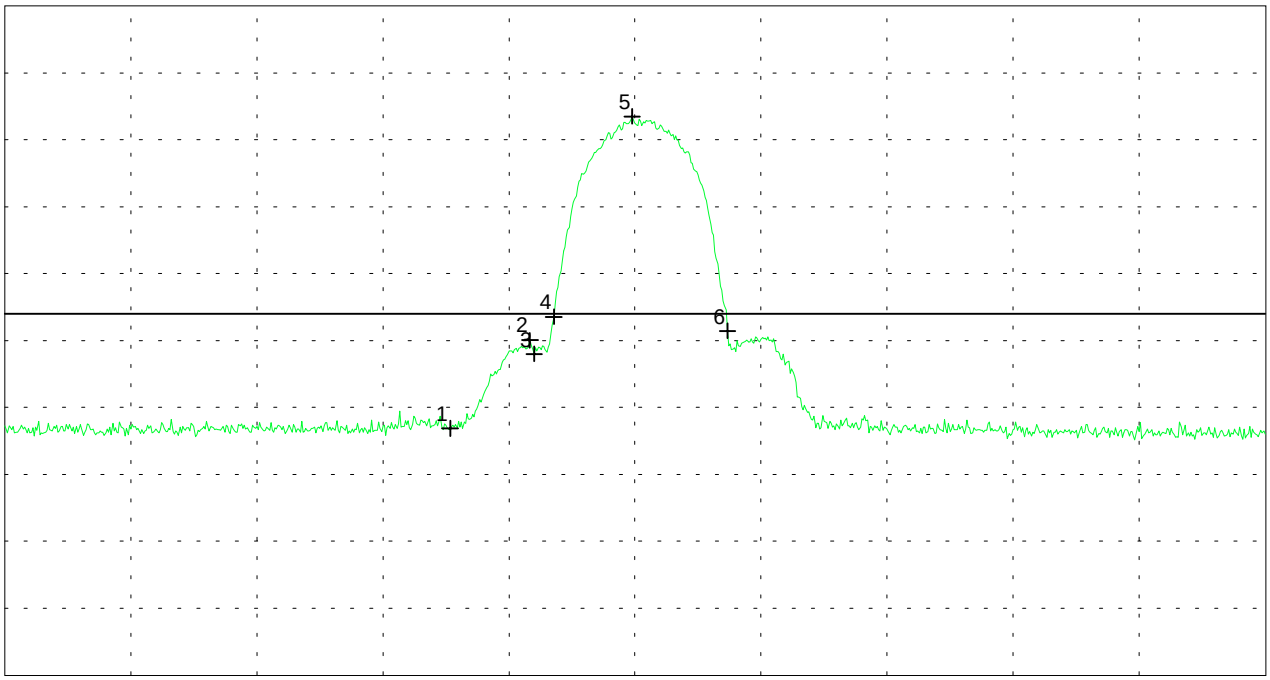
No. 1	2.390000 GHz	56.37 dBµV/m
No. 2	2.399500 GHz	72.52 dBµV/m
No. 3	2.400000 GHz	71.18 dBµV/m
No. 4	2.402000 GHz	73.21 dBµV/m
No. 5	2.411500 GHz	106.15 dBµV/m
No. 6	2.428333 GHz	73.84 dBµV/m

Tested by: Rainer Heller	Project-No.: 56305-10552-1
Date: 08/31/2001	Page 108 of 157 Pages

Radiated Emission 1 GHz - 25 GHz acc. to FCC Part 15 Subpart C

Model: PC24E-11-FC/R	Mode: - FCC test setup - supply voltage 115 V AC - RF-modem mounted in notebook AT&T Globalyst 200 via PC-card extender Sycard PCCextend 50A - shielding of PC-card extender improved - operating with bit rate 11 Mbps - TX mode with f = 2.412 GHz Test distance 3 meters Channel B (green) = vertical polarization
Serial No.: 01UT33300016	
Applicant: Agere Systems Nederland B.V.	

Ref.Level 120 dBµV/m ATT 5 dB Ref. Offset 21.3 dB
10 dB/Div.



Start 2.337 GHz Stop 2.487 GHz
RBW 1 MHz VBW 1 MHz SWP 20 ms

Multi Marker List

No. 1	2.390000 GHz	56.86 dBµV/m
No. 2	2.399500 GHz	70.06 dBµV/m
No. 3	2.400000 GHz	67.98 dBµV/m
No. 4	2.402333 GHz	73.54 dBµV/m
No. 5	2.411667 GHz	103.48 dBµV/m
No. 6	2.423000 GHz	71.43 dBµV/m

Tested by: Rainer Heller	Project-No.: 56305-10552-1
Date: 08/31/2001	

Radiated Emission 1 GHz - 25 GHz
according to FCC Part 15 Subpart C

Model: PC24E-11-FC/R
Type: RF-modem for wireless LAN
Serial No.: 01UT33300016
Applicant: Agere Systems Nederland B.V.
Test-site: Semi anechoic room
Test distance: 3 meters
Date of test: 08/30/2000
Operator: R. Heller

Mode:
- FCC test setup
- supply voltage 115 V AC
- RF-modem mounted in notebook AT&T Globalyst 200 via PC-card extender Sycard PCCextend 50A
- shielding of PC-card extender improved

- operating with bit rate 11 Mbps

- TX mode with f = 2.412 GHz

Detector: Average

Frequency [GHz]	Polarization	Analyzer-reading [dBµV]	Generator-level [dBm]	Cable loss [dB]	Antenna-correction [dB]	Fieldstrength [dBµV/m]	Limit [dBµV/m]
2.3900	horizontal	44.4		0.6	20.7	44.4	54
2.3942	horizontal	53.5		0.6	20.7	53.5	NRB
2.3988	horizontal	64.5		0.6	20.7	64.5	NRB
2.4000	horizontal	64.1		0.6	20.7	64.1	NRB
2.4133	horizontal	99.8		0.6	20.7	99.8	OB
2.4308	horizontal	53.4		0.6	20.7	53.4	OB
2.6332	horizontal	42.5		0.6	23.7	42.5	54
2.6762	horizontal	46.3		0.6	23.7	46.3	54
2.7130	vertical	44.6		0.6	23.7	44.6	54
4.8241	vertical	45.7	-88.7		27.3	45.6	54

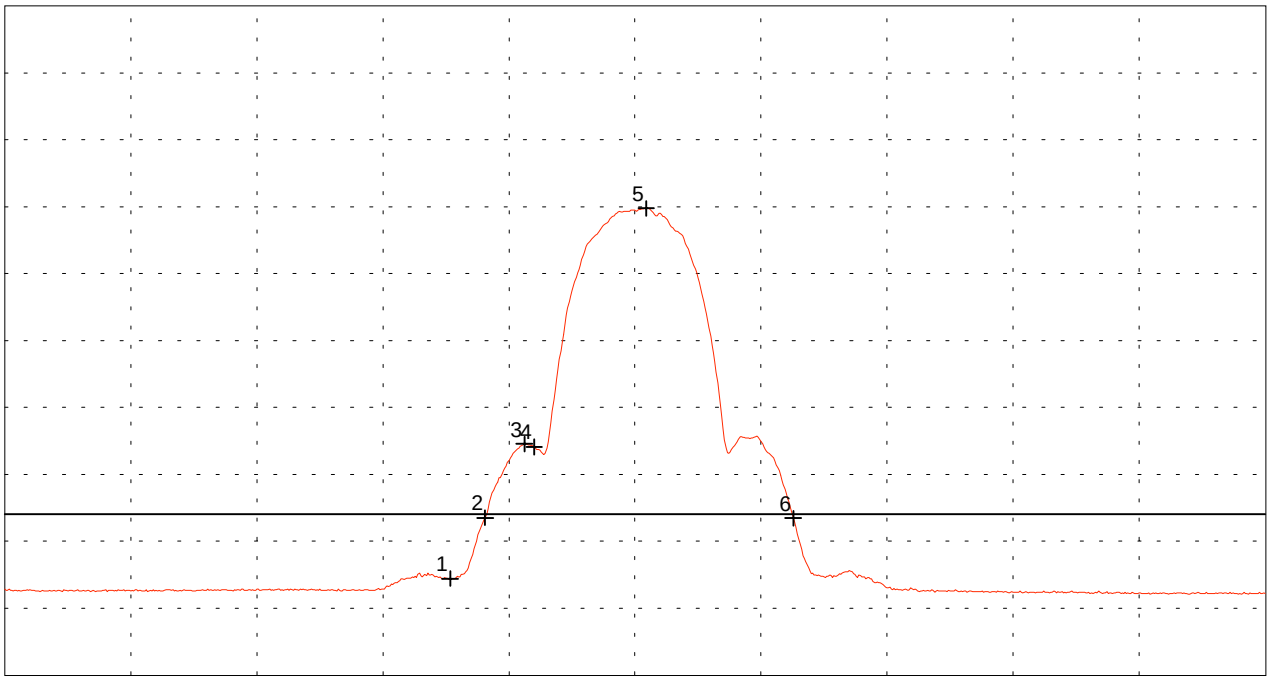
Note: OB means "operation band" (2400 - 2483.5 MHz); in this case limit is 1 W (measured conducted with power meter).
NRB means "non restricted band"; in this case limit is 20 dB below maximum in-band-power equivalent to 99.8 dBµV/m.

Result: The limits are kept

Radiated Emission 1 GHz - 25 GHz acc. to FCC Part 15 Subpart C

Model: PC24E-11-FC/R	Mode: - FCC test setup - supply voltage 115 V AC - RF-modem mounted in notebook AT&T Globalyst 200 via PC-card extender Sycard PCCextend 50A - shielding of PC-card extender improved - operating with bit rate 11 Mbps - TX mode with f = 2.412 GHz Test distance 3 meters Channel A (red) = horizontal polarization
Serial No.: 01UT33300016	
Applicant: Agere Systems Nederland B.V.	

Ref.Level 130 dBµV/m ATT 5 dB Ref. Offset 21.3 dB
10 dB/Div.



Start 2.337 GHz Stop 2.487 GHz
RBW 1 MHz VBW 1 kHz SWP 460 ms

Multi Marker List

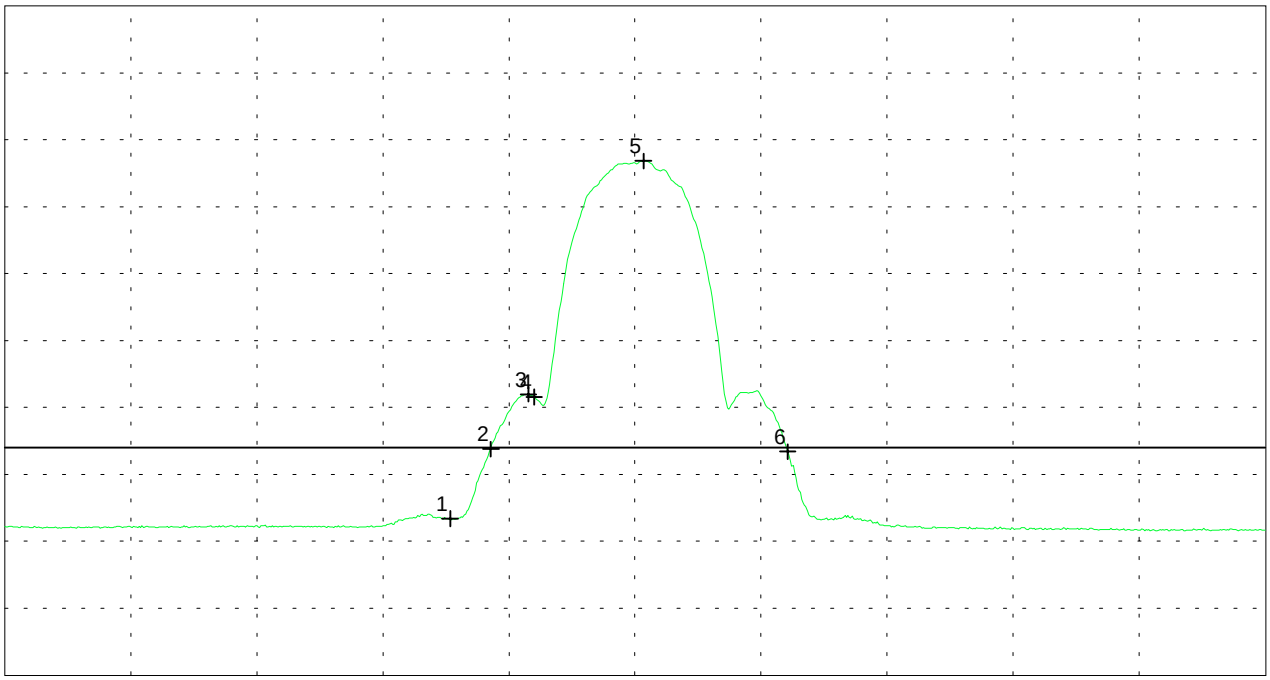
No. 1	2.390000 GHz	44.39 dBµV/m
No. 2	2.394167 GHz	53.48 dBµV/m
No. 3	2.398833 GHz	64.53 dBµV/m
No. 4	2.400000 GHz	64.09 dBµV/m
No. 5	2.413333 GHz	99.75 dBµV/m
No. 6	2.430833 GHz	53.43 dBµV/m

Tested by: Rainer Heller	Project-No.: 56305-10552-1
Date: 08/31/2001	

Radiated Emission 1 GHz - 25 GHz acc. to FCC Part 15 Subpart C

Model: PC24E-11-FC/R	Mode: - FCC test setup - supply voltage 115 V AC - RF-modem mounted in notebook AT&T Globalyst 200 via PC-card extender Sycard PCCextend 50A - shielding of PC-card extender improved - operating with bit rate 11 Mbps - TX mode with f = 2.412 GHz Test distance 3 meters Channel B (green) = vertical polarization
Serial No.: 01UT33300016	
Applicant: Agere Systems Nederland B.V.	

Ref.Level 120 dBµV/m ATT 5 dB Ref. Offset 21.3 dB
10 dB/Div.



Start 2.337 GHz Stop 2.487 GHz
RBW 1 MHz VBW 1 kHz SWP 460 ms

Multi Marker List

No. 1	2.390000 GHz	43.35 dBµV/m
No. 2	2.394833 GHz	53.79 dBµV/m
No. 3	2.399333 GHz	61.96 dBµV/m
No. 4	2.400000 GHz	61.53 dBµV/m
No. 5	2.413000 GHz	96.85 dBµV/m
No. 6	2.430167 GHz	53.38 dBµV/m

Tested by: Rainer Heller	Project-No.: 56305-10552-1
Date: 08/31/2001	

Radiated Emission 1 GHz - 25 GHz (Additional Test Results) according to FCC Part 15 Subpart C

Model: PC24E-11-FC/R
Type: RF-modem for wireless LAN
Serial No.: 01UT33300016
Applicant: Agere Systems Nederland B.V.
Test-site: Semi anechoic room
Test distance: 3 meters
Date of test: 08/30/2000
Operator: R. Heller

Mode:
- FCC test setup
- supply voltage 115 V AC
- RF-modem mounted in notebook AT&T Globalyst 200 via PC-card extender Sycard PCCextend 50A
- shielding of PC-card extender improved

- operating with bit rate 2 Mbps

- TX mode with f = 2.412 GHz

Detector: Peak

Frequency [GHz]	Polarization	Analyzer-reading [dBµV]	Generator-level [dBm]	Cable loss [dB]	Antenna-correction [dB]	Fieldstrength [dBµV/m]	Limit [dBµV/m]
2.3900	horizontal	55.3		0.6	20.7	55.3	74
2.3983	horizontal	71.5		0.6	20.7	71.5	NRB
2.4000	horizontal	70.5		0.6	20.7	70.5	NRB
2.4022	horizontal	74.0		0.6	20.7	74.0	NRB
2.4143	horizontal	103.7		0.6	20.7	103.7	OB
2.4230	horizontal	73.1		0.6	20.7	73.1	OB
2.6345	vertical	50.7		0.6	23.7	50.7	74
2.6782	vertical	53.4		0.6	23.7	53.4	74
2.7162	horizontal	52.2		0.6	23.7	52.2	74
4.8241	vertical	51.0	-83.6		27.3	50.7	74

Note 1: OB means "operation band" (2400 - 2483.5 MHz); in this case limit is 1 W (measured conducted with power meter).
NRB means "non restricted band"; in this case limit is 20 dB below maximum in-band-power equivalent to 103.7 dBµV/m.

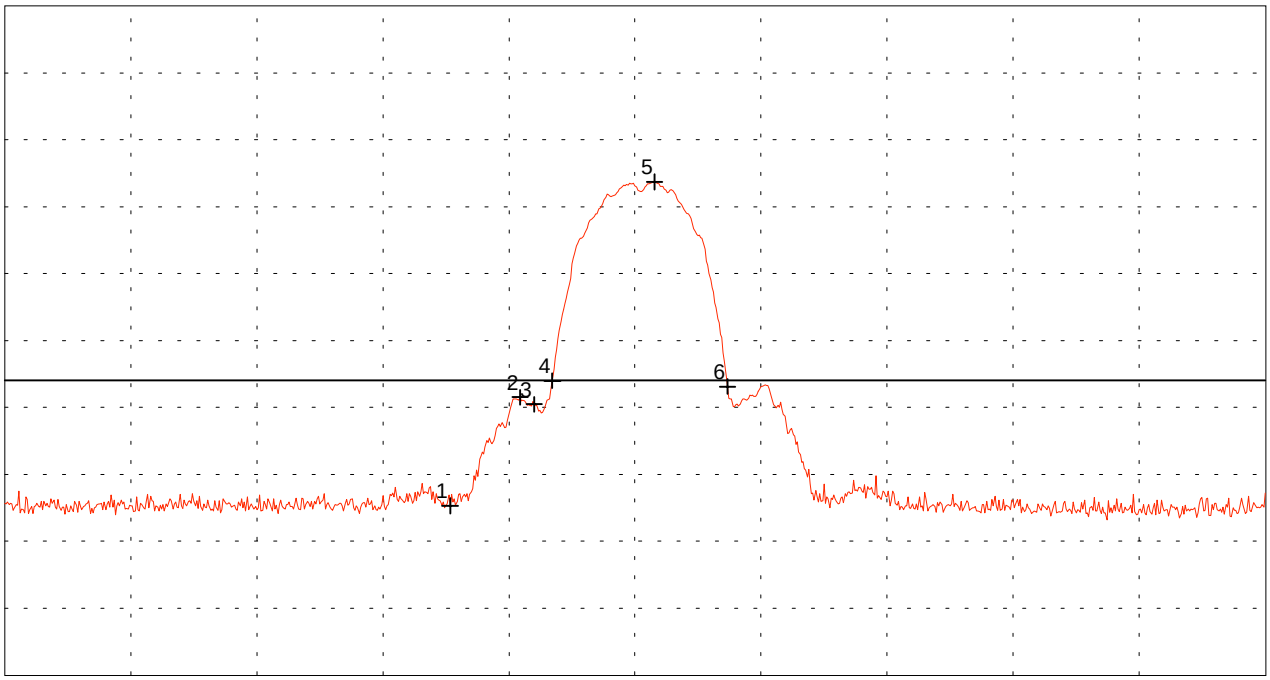
Note 2: Extent of testing harmonics with 2 Mbps selected according to results of radiated emission with 11 Mbps (peak)

Result: The limits are kept

Radiated Emission 1 GHz - 25 GHz acc. to FCC Part 15 Subpart C

Model: PC24E-11-FC/R	Mode: - FCC test setup - supply voltage 115 V AC - RF-modem mounted in notebook AT&T Globalyst 200 via PC-card extender Sycard PCCextend 50A - shielding of PC-card extender improved - operating with bit rate 2 Mbps - TX mode with f = 2.412 GHz Test distance 3 meters Channel A (red) = horizontal polarization
Serial No.: 01UT33300016	
Applicant: Agere Systems Nederland B.V.	

Ref.Level 130 dBµV/m ATT 5 dB Ref. Offset 21.3 dB
10 dB/Div.



Start 2.337 GHz Stop 2.487 GHz
RBW 1 MHz VBW 1 MHz SWP 20 ms

Multi Marker List

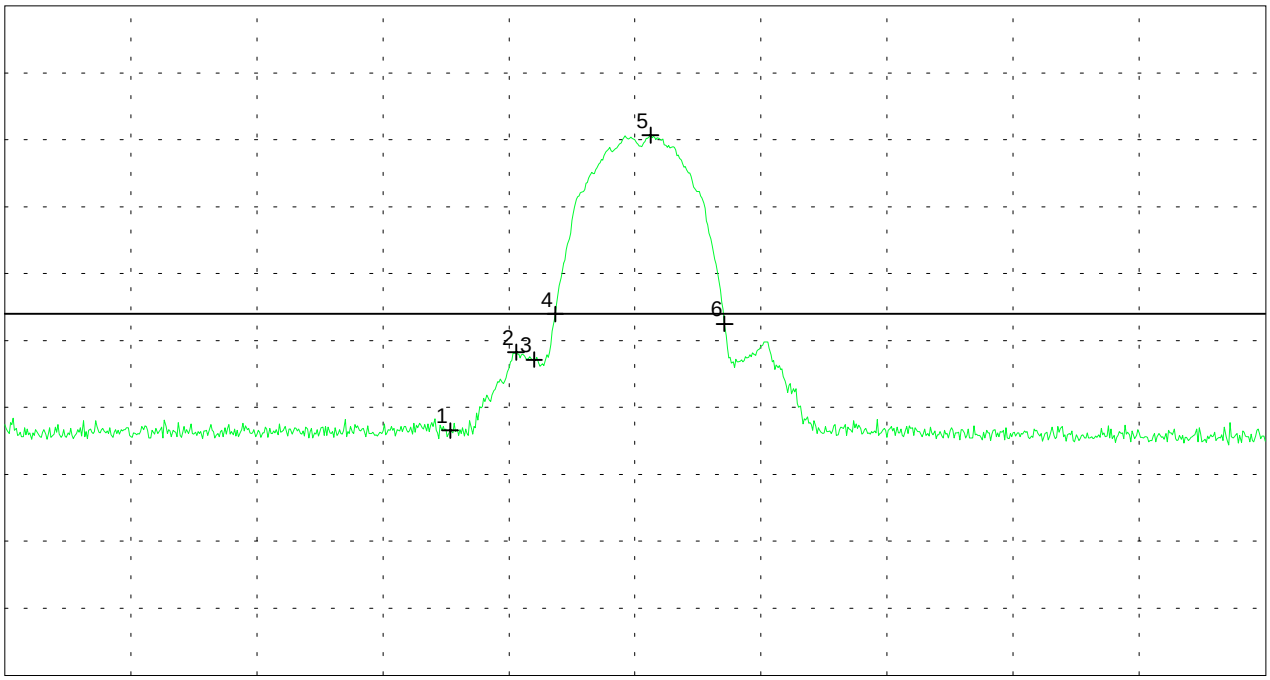
No. 1	2.390000 GHz	55.28 dBµV/m
No. 2	2.398333 GHz	71.51 dBµV/m
No. 3	2.400000 GHz	70.47 dBµV/m
No. 4	2.402167 GHz	73.95 dBµV/m
No. 5	2.414333 GHz	103.71 dBµV/m
No. 6	2.423000 GHz	73.11 dBµV/m

Tested by: Rainer Heller	Project-No.: 56305-10552-1
Date: 08/31/2001	

Radiated Emission 1 GHz - 25 GHz acc. to FCC Part 15 Subpart C

Model: PC24E-11-FC/R	Mode: - FCC test setup - supply voltage 115 V AC - RF-modem mounted in notebook AT&T Globalyst 200 via PC-card extender Sycard PCCextend 50A - shielding of PC-card extender improved - operating with bit rate 2 Mbps - TX mode with f = 2.412 GHz Test distance 3 meters Channel B (green) = vertical polarization
Serial No.: 01UT33300016	
Applicant: Agere Systems Nederland B.V.	

Ref.Level 120 dBµV/m ATT 5 dB Ref. Offset 21.3 dB
10 dB/Div.



Start 2.337 GHz Stop 2.487 GHz
RBW 1 MHz VBW 1 MHz SWP 20 ms

Multi Marker List

No. 1	2.390000 GHz	56.55 dBµV/m
No. 2	2.397833 GHz	68.24 dBµV/m
No. 3	2.400000 GHz	67.14 dBµV/m
No. 4	2.402500 GHz	73.95 dBµV/m
No. 5	2.413833 GHz	100.69 dBµV/m
No. 6	2.422667 GHz	72.50 dBµV/m

Tested by: Rainer Heller	Project-No.: 56305-10552-1
Date: 08/31/2001	

Radiated Emission 1 GHz - 25 GHz (Additional Test Results) according to FCC Part 15 Subpart C

Model: PC24E-11-FC/R
Type: RF-modem for wireless LAN
Serial No.: 01UT33300016
Applicant: Agere Systems Nederland B.V.
Test-site: Semi anechoic room
Test distance: 3 meters
Date of test: 08/30/2000
Operator: R. Heller

Mode:
- FCC test setup
- supply voltage 115 V AC
- RF-modem mounted in notebook AT&T Globalyst 200 via PC-card extender Sycard PCCextend 50A
- shielding of PC-card extender improved

- operating with bit rate 2 Mbps

- TX mode with f = 2.412 GHz

Detector: Average

Frequency [GHz]	Polarization	Analyzer-reading [dBµV]	Generator-level [dBm]	Cable loss [dB]	Antenna-correction [dB]	Fieldstrength [dBµV/m]	Limit [dBµV/m]
2.3900	horizontal	43.5		0.6	20.7	43.5	54
2.3933	horizontal	53.4		0.6	20.7	53.4	NRB
2.3983	horizontal	66.9		0.6	20.7	66.9	NRB
2.4000	horizontal	64.6		0.6	20.7	64.6	NRB
2.4128	horizontal	100.4		0.6	20.7	100.4	OB
2.4313	horizontal	53.2		0.9	27.3	53.2	OB
2.6313	horizontal	46.1		0.6	23.7	46.1	54
2.6787	vertical	48.9		0.6	23.7	48.9	54
2.7153	vertical	48.5		0.6	23.7	48.5	54
4.8240	vertical	47.8	-86.6		27.3	47.6	54

Note 1: OB means "operation band" (2400 - 2483.5 MHz); in this case limit is 1 W (measured conducted with power meter).
NRB means "non restricted band"; in this case limit is 20 dB below maximum in-band-power equivalent to 100.4 dBµV/m.

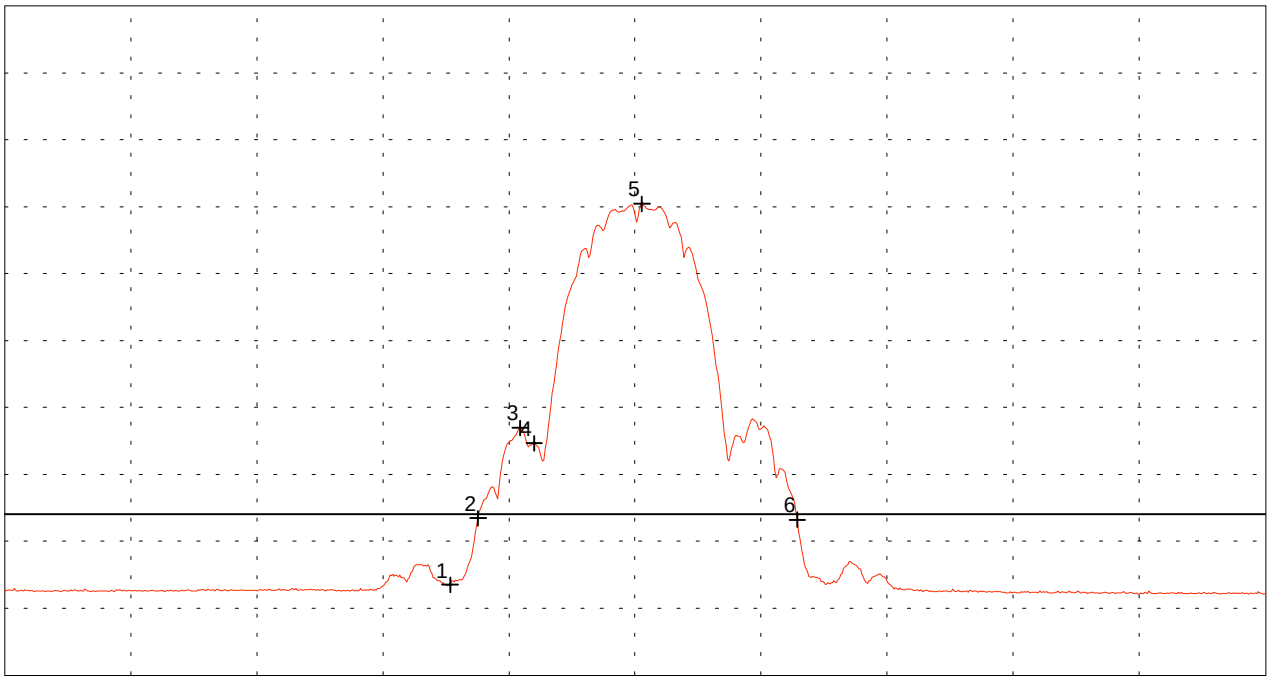
Note 2: Extent of testing harmonics with 2 Mbps selected according to results of radiated emission with 11 Mbps (peak)

Result: The limits are kept

Radiated Emission 1 GHz - 25 GHz acc. to FCC Part 15 Subpart C

Model: PC24E-11-FC/R	Mode: - FCC test setup - supply voltage 115 V AC - RF-modem mounted in notebook AT&T Globalyst 200 via PC-card extender Sycard PCCextend 50A - shielding of PC-card extender improved - operating with bit rate 2 Mbps - TX mode with f = 2.412 GHz Test distance 3 meters Channel A (red) = horizontal polarization
Serial No.: 01UT33300016	
Applicant: Agere Systems Nederland B.V.	

Ref.Level 130 dBµV/m ATT 5 dB Ref. Offset 21.3 dB
10 dB/Div.



Start 2.337 GHz Stop 2.487 GHz
RBW 1 MHz VBW 1 kHz SWP 460 ms

Multi Marker List

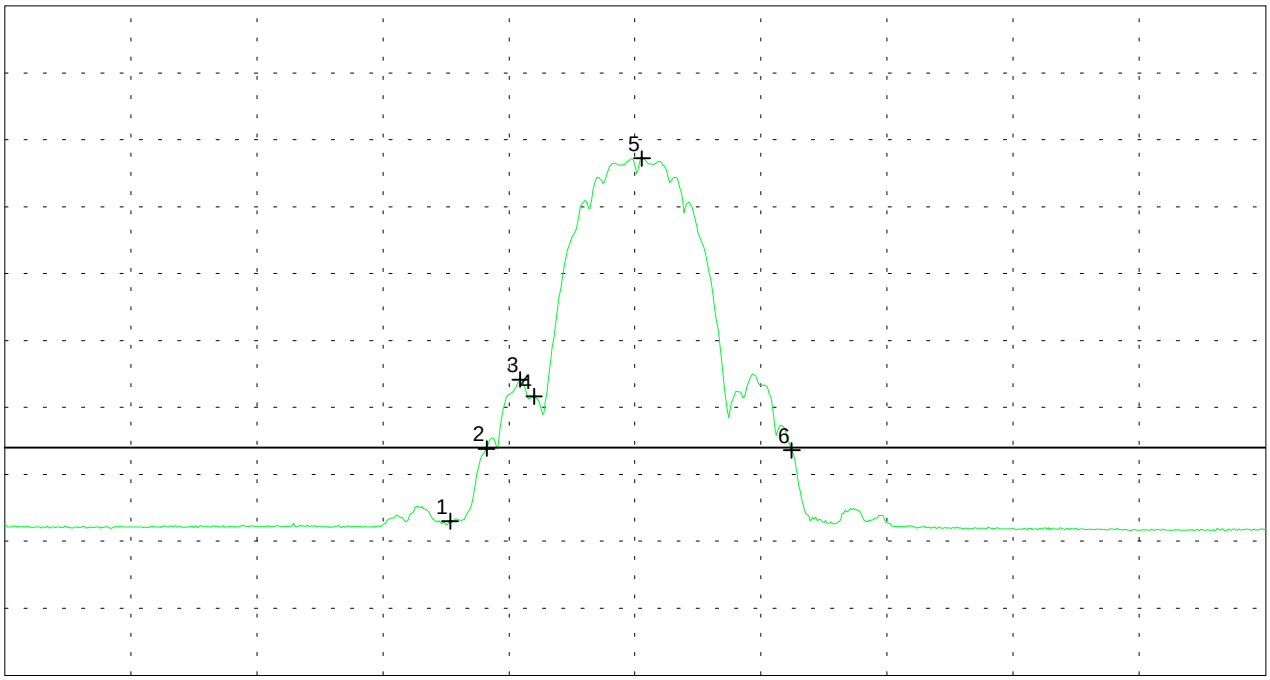
No. 1	2.390000 GHz	43.47 dBµV/m
No. 2	2.393333 GHz	53.43 dBµV/m
No. 3	2.398333 GHz	66.94 dBµV/m
No. 4	2.400000 GHz	64.63 dBµV/m
No. 5	2.412833 GHz	100.43 dBµV/m
No. 6	2.431333 GHz	53.20 dBµV/m

Tested by: Rainer Heller	Project-No.: 56305-10552-1
Date: 08/31/2001	

Radiated Emission 1 GHz - 25 GHz acc. to FCC Part 15 Subpart C

Model: PC24E-11-FC/R	Mode: - FCC test setup - supply voltage 115 V AC - RF-modem mounted in notebook AT&T Globalyst 200 via PC-card extender Sycard PCCextend 50A - shielding of PC-card extender improved - operating with bit rate 2 Mbps - TX mode with f = 2.412 GHz Test distance 3 meters Channel B (green) = vertical polarization
Serial No.: 01UT33300016	
Applicant: Agere Systems Nederland B.V.	

Ref.Level 120 dBµV/m ATT 5 dB Ref. Offset 21.3 dB
10 dB/Div.



Start 2.337 GHz Stop 2.487 GHz
RBW 1 MHz VBW 1 kHz SWP 460 ms

Multi Marker List

No. 1	2.390000 GHz	42.97 dBµV/m
No. 2	2.394333 GHz	53.81 dBµV/m
No. 3	2.398333 GHz	64.17 dBµV/m
No. 4	2.400000 GHz	61.63 dBµV/m
No. 5	2.412833 GHz	97.23 dBµV/m
No. 6	2.430667 GHz	53.56 dBµV/m

Tested by: Rainer Heller	Project-No.: 56305-10552-1
Date: 08/31/2001	

Radiated Emission 1 GHz - 25 GHz
according to FCC Part 15 Subpart C

Model: PC24E-11-FC/R
Type: RF-modem for wireless LAN
Serial No.: 01UT33300016
Applicant: Agere Systems Nederland B.V.
Test-site: Semi anechoic room
Test distance: 3 meters
Date of test: 08/30/2000
Operator: R. Heller

Mode:
- FCC test setup
- supply voltage 115 V AC
- RF-modem mounted in notebook AT&T Globalyst 200 via PC-card extender Sycard PCCextend 50A
- shielding of PC-card extender improved

- operating with bit rate 11 Mbps

- TX mode with f = 2.442 GHz

Detector: Peak

Frequency [GHz]	Polarization	Analyzer-reading [dBµV]	Generator-level [dBm]	Cable loss [dB]	Antenna-correction [dB]	Fieldstrength [dBµV/m]	Limit [dBµV/m]
2.4320	horizontal	72.6		0.6	20.7	72.6	OB
2.4417	horizontal	105.7		0.6	20.7	105.7	OB
2.4530	horizontal	72.4		0.6	20.7	72.4	OB
2.7095	vertical	53.4		0.6	23.7	53.4	74
4.8894	vertical	48.1	-86.3		27.3	48.0	74
7.3279	vertical	44.4	-92.3		29.9	44.6	74

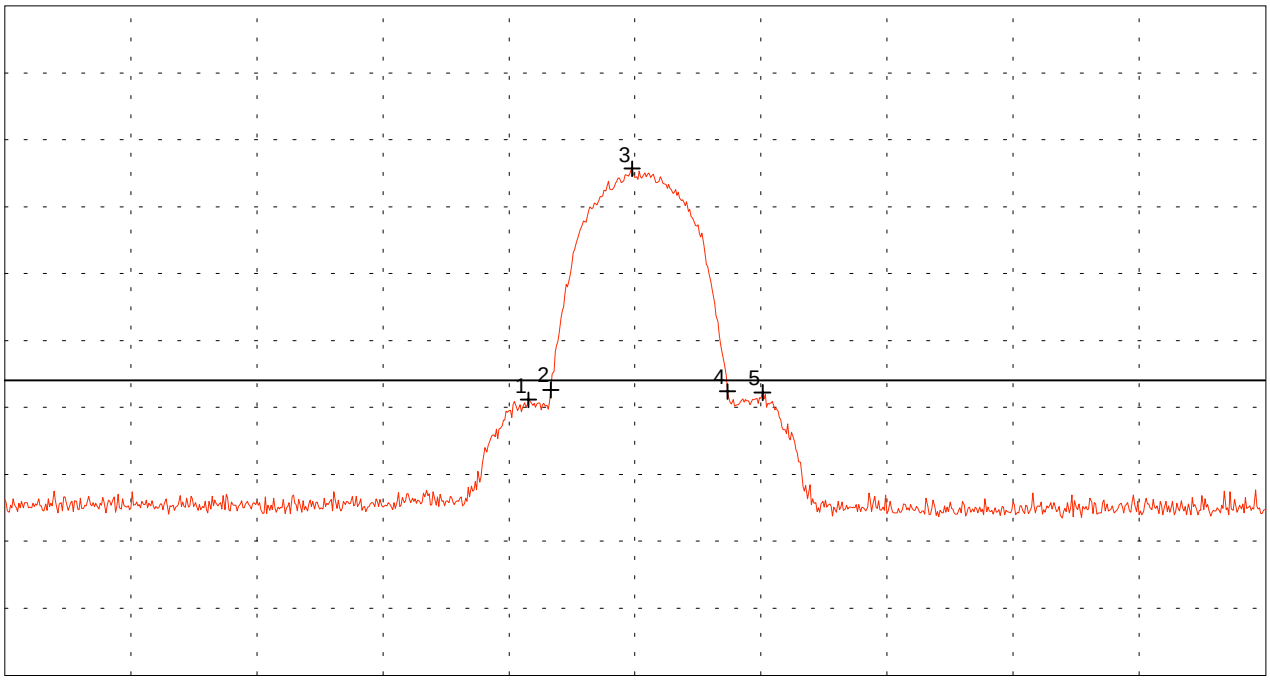
Note: OB means "operation band" (2400 - 2483.5 MHz); in this case limit is 1 W (measured conducted with power meter).
NRB means "non restricted band"; in this case limit is 20 dB below maximum in-band-power equivalent to 105.7 dBµV/m.

Result: The limits are kept

Radiated Emission 1 GHz - 25 GHz acc. to FCC Part 15 Subpart C

Model: PC24E-11-FC/R	Mode: - FCC test setup - supply voltage 115 V AC - RF-modem mounted in notebook AT&T Globalyst 200 via PC-card extender Sycard PCCextend 50A - shielding of PC-card extender improved - operating with bit rate 11 Mbps - TX mode with f = 2.442 GHz Test distance 3 meters Channel A (red) = horizontal polarization
Serial No.: 01UT33300016	
Applicant: Agere Systems Nederland B.V.	

Ref.Level 130 dBµV/m ATT 5 dB Ref. Offset 21.3 dB
10 dB/Div.



Start 2.367 GHz Stop 2.517 GHz
RBW 1 MHz VBW 1 MHz SWP 20 ms

Multi Marker List

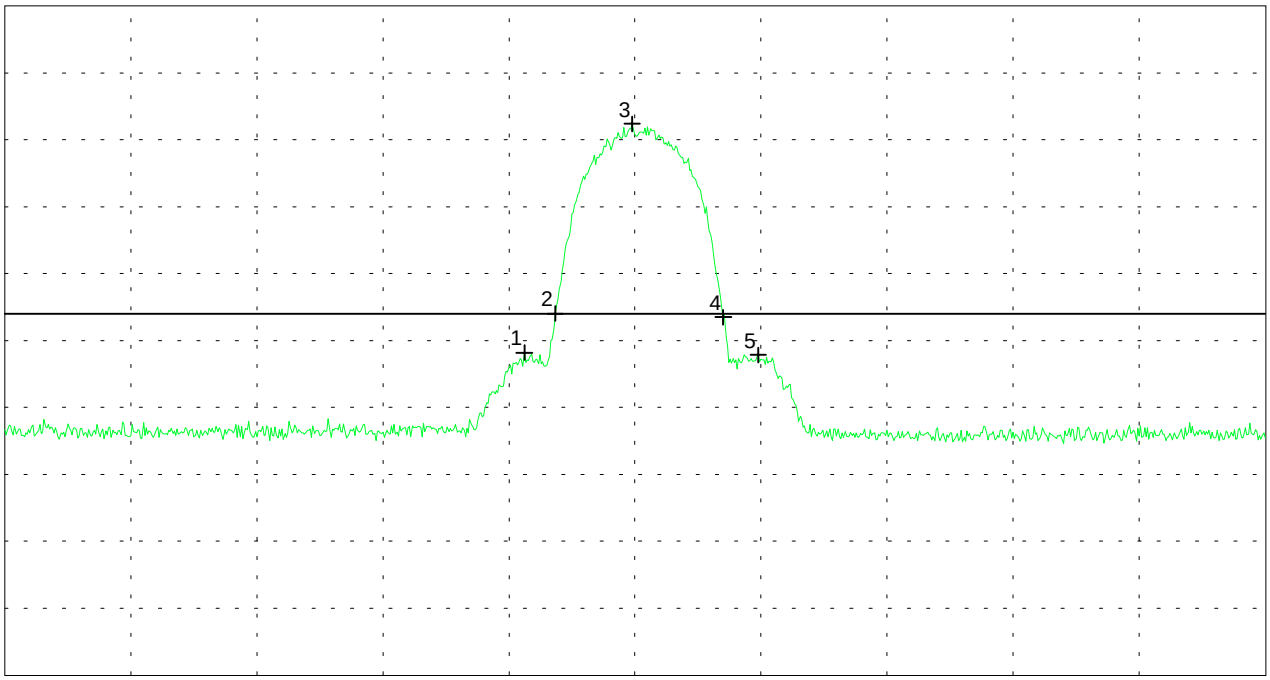
No. 1	2.429333 GHz	71.13 dBµV/m
No. 2	2.432000 GHz	72.60 dBµV/m
No. 3	2.441667 GHz	105.66 dBµV/m
No. 4	2.453000 GHz	72.40 dBµV/m
No. 5	2.457167 GHz	72.22 dBµV/m

Tested by: Rainer Heller	Project-No.: 56305-10552-1
Date: 08/31/2001	

Radiated Emission 1 GHz - 25 GHz acc. to FCC Part 15 Subpart C

Model: PC24E-11-FC/R	Mode: - FCC test setup - supply voltage 115 V AC - RF-modem mounted in notebook AT&T Globalyst 200 via PC-card extender Sycard PCCextend 50A - shielding of PC-card extender improved - operating with bit rate 11 Mbps - TX mode with f = 2.442 GHz Test distance 3 meters Channel B (green) = vertical polarization
Serial No.: 01UT33300016	
Applicant: Agere Systems Nederland B.V.	

Ref.Level 120 dBµV/m ATT 5 dB Ref. Offset 21.3 dB
10 dB/Div.



Start 2.367 GHz Stop 2.517 GHz
RBW 1 MHz VBW 1 MHz SWP 20 ms

Multi Marker List

No. 1	2.428833 GHz	68.18 dBµV/m
No. 2	2.432500 GHz	74.00 dBµV/m
No. 3	2.441667 GHz	102.36 dBµV/m
No. 4	2.452500 GHz	73.47 dBµV/m
No. 5	2.456667 GHz	67.83 dBµV/m

Tested by: Rainer Heller	Project-No.: 56305-10552-1
Date: 08/31/2001	

Radiated Emission 1 GHz - 25 GHz
according to FCC Part 15 Subpart C

Model: PC24E-11-FC/R
Type: RF-modem for wireless LAN
Serial No.: 01UT33300016
Applicant: Agere Systems Nederland B.V.
Test-site: Semi anechoic room
Test distance: 3 meters
Date of test: 08/30/2000
Operator: R. Heller

Mode:
- FCC test setup
- supply voltage 115 V AC
- RF-modem mounted in notebook AT&T Globalyst 200 via PC-card extender Sycard PCCextend 50A
- shielding of PC-card extender improved

- operating with bit rate 11 Mbps

- TX mode with f = 2.442 GHz

Detector: Average

Frequency [GHz]	Polarization	Analyzer-reading [dBµV]	Generator-level [dBm]	Cable loss [dB]	Antenna-correction [dB]	Fieldstrength [dBµV/m]	Limit [dBµV/m]
2.4247	horizontal	53.5		0.6	20.7	53.5	OB
2.4448	horizontal	100.6		0.6	20.7	100.6	OB
2.4602	horizontal	53.7		0.6	20.7	53.7	OB
2.7068	vertical	45.9		0.6	23.7	45.9	54
2.7248	vertical	40.4		0.6	23.7	40.4	54
4.8841	vertical	45.0	-89.2		27.3	45.1	54

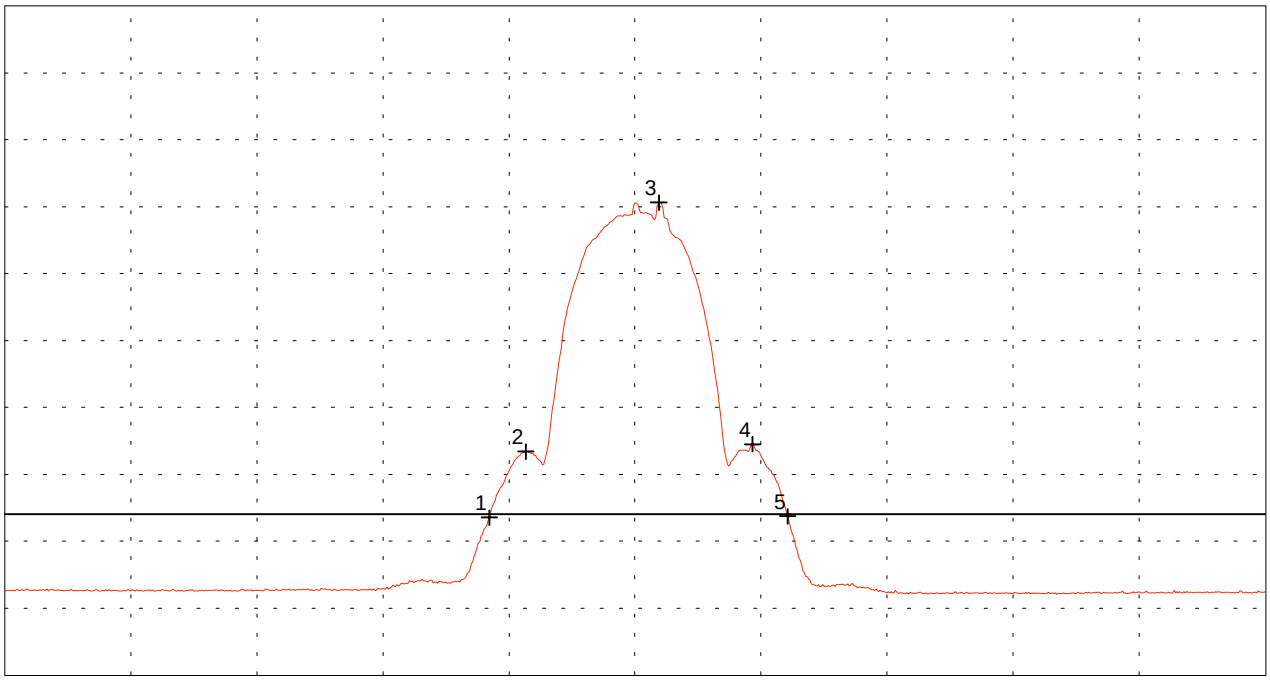
Note: OB means "operation band" (2400 - 2483.5 MHz); in this case limit is 1 W (measured conducted with power meter).
NRB means "non restricted band"; in this case limit is 20 dB below maximum in-band-power equivalent to 100.6 dBµV/m.

Result: The limits are kept

Radiated Emission 1 GHz - 25 GHz acc. to FCC Part 15 Subpart C

Model: PC24E-11-FC/R	Mode: - FCC test setup - supply voltage 115 V AC - RF-modem mounted in notebook AT&T Globalyst 200 via PC-card extender Sycard PCCextend 50A - shielding of PC-card extender improved - operating with bit rate 11 Mbps - TX mode with f = 2.442 GHz Test distance 3 meters Channel A (red) = horizontal polarization
Serial No.: 01UT33300016	
Applicant: Agere Systems Nederland B.V.	

Ref.Level 130 dBµV/m ATT 5 dB Ref. Offset 21.3 dB
10 dB/Div.



Start 2.367 GHz Stop 2.517 GHz
RBW 1 MHz VBW 1 kHz SWP 460 ms

Multi Marker List

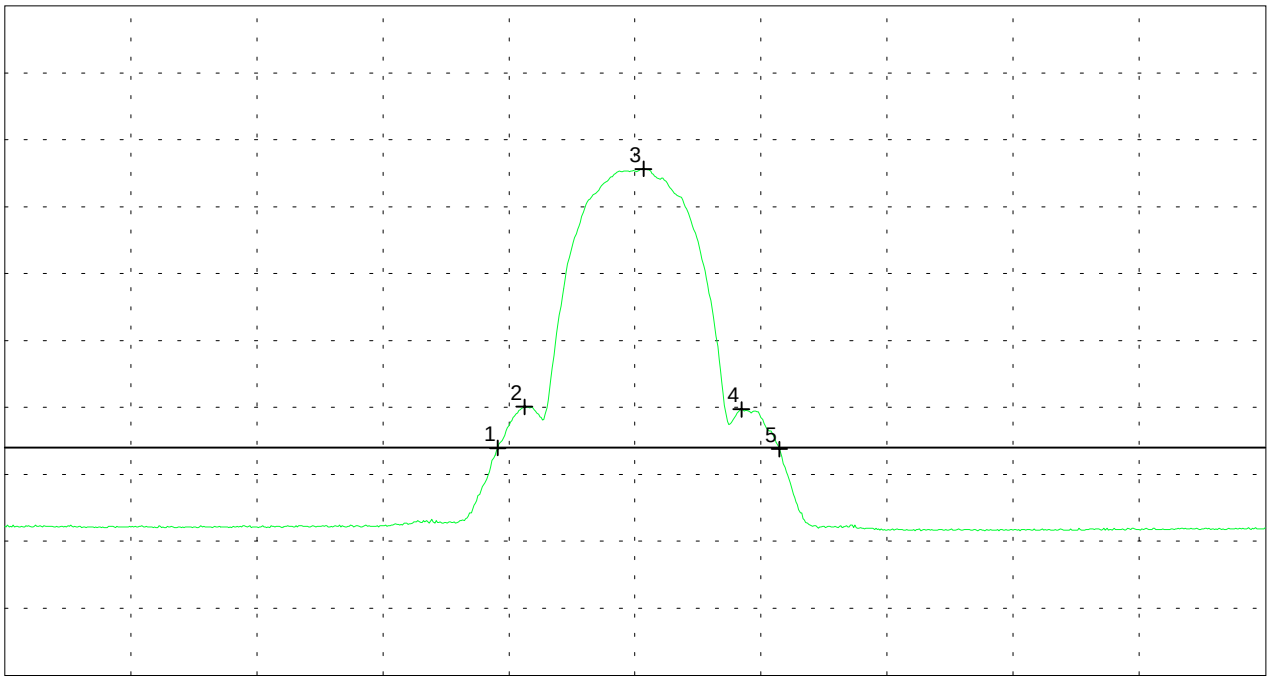
No. 1	2.424667 GHz	53.53 dBµV/m
No. 2	2.429000 GHz	63.38 dBµV/m
No. 3	2.444833 GHz	100.63 dBµV/m
No. 4	2.456000 GHz	64.50 dBµV/m
No. 5	2.460167 GHz	53.71 dBµV/m

Tested by: Rainer Heller	Project-No.: 56305-10552-1
Date: 08/31/2001	

Radiated Emission 1 GHz - 25 GHz acc. to FCC Part 15 Subpart C

Model: PC24E-11-FC/R	Mode: - FCC test setup - supply voltage 115 V AC - RF-modem mounted in notebook AT&T Globalyst 200 via PC-card extender Sycard PCCextend 50A - shielding of PC-card extender improved - operating with bit rate 11 Mbps - TX mode with f = 2.442 GHz Test distance 3 meters Channel B (green) = vertical polarization
Serial No.: 01UT33300016	
Applicant: Agere Systems Nederland B.V.	

Ref.Level 120 dBµV/m ATT 5 dB Ref. Offset 21.3 dB
10 dB/Div.



Start 2.367 GHz Stop 2.517 GHz
RBW 1 MHz VBW 1 kHz SWP 460 ms

Multi Marker List

No. 1	2.425667 GHz	53.94 dBµV/m
No. 2	2.428833 GHz	60.08 dBµV/m
No. 3	2.443000 GHz	95.63 dBµV/m
No. 4	2.454667 GHz	59.70 dBµV/m
No. 5	2.459167 GHz	53.76 dBµV/m

Tested by: Rainer Heller	Project-No.: 56305-10552-1
Date: 08/31/2001	

Radiated Emission 1 GHz - 25 GHz (Additional Test Results) according to FCC Part 15 Subpart C

Model: PC24E-11-FC/R
Type: RF-modem for wireless LAN
Serial No.: 01UT33300016
Applicant: Agere Systems Nederland B.V.
Test-site: Semi anechoic room
Test distance: 3 meters
Date of test: 08/30/2000
Operator: R. Heller

Mode:
- FCC test setup
- supply voltage 115 V AC
- RF-modem mounted in notebook AT&T Globalyst 200 via PC-card extender Sycard PCCextend 50A
- shielding of PC-card extender improved

- operating with bit rate 2 Mbps

- TX mode with f = 2.442 GHz

Detector: Peak

Frequency [GHz]	Polarization	Analyzer-reading [dBµV]	Generator-level [dBm]	Cable loss [dB]	Antenna-correction [dB]	Fieldstrength [dBµV/m]	Limit [dBµV/m]
2.4322	horizontal	74.0		0.6	20.7	74.0	OB
2.4440	horizontal	103.2		0.6	20.7	103.2	OB
2.4528	horizontal	73.5		0.6	20.7	73.5	OB
2.6635	vertical	49.6		0.6	23.7	49.6	74
2.7083	vertical	52.9		0.6	23.7	52.9	74
2.7297	vertical	52.0		0.6	23.7	52.0	74
2.7500	vertical	49.8		0.6	23.7	49.8	74
4.8842	vertical	50.3	-84.1		27.3	50.2	74
7.3269	vertical	45.0	-91.8		29.9	45.2	74

Note 1: OB means "operation band" (2400 - 2483.5 MHz); in this case limit is 1 W (measured conducted with power meter).
NRB means "non restricted band"; in this case limit is 20 dB below maximum in-band-power equivalent to 103.2 dBµV/m.

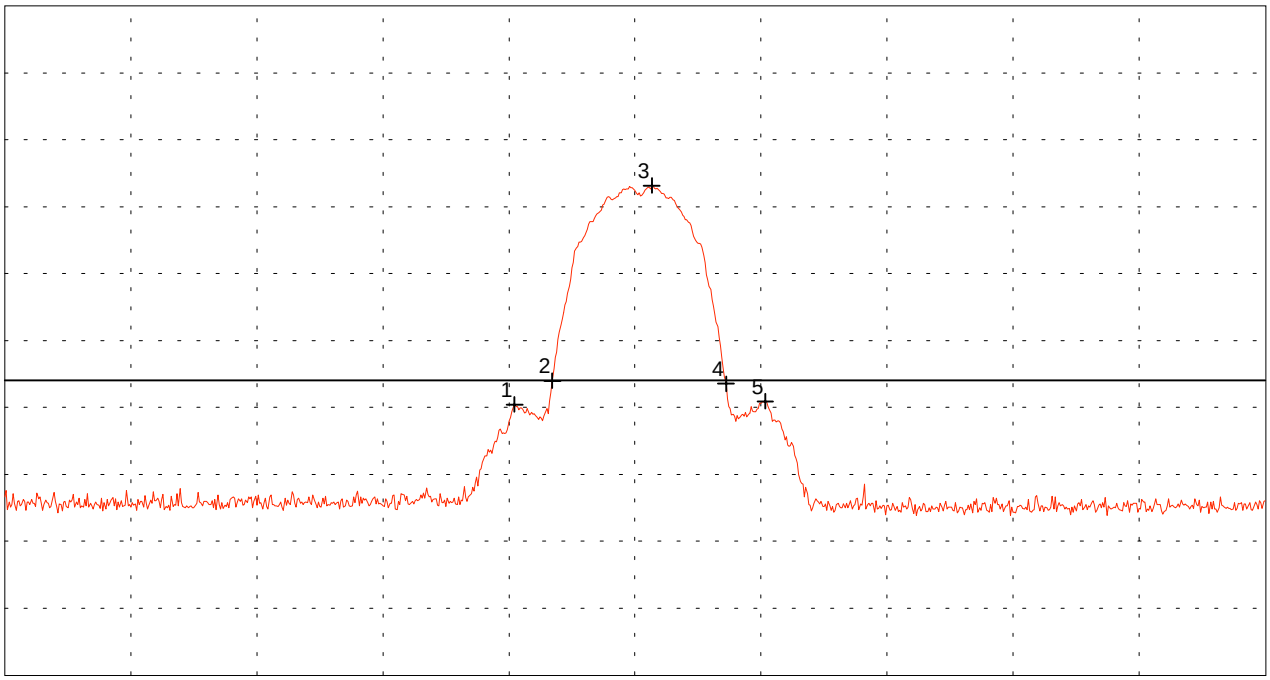
Note 2: Extent of testing harmonics with 2 Mbps selected according to results of radiated emission with 11 Mbps (peak)

Result: The limits are kept

Radiated Emission 1 GHz - 25 GHz acc. to FCC Part 15 Subpart C

Model: PC24E-11-FC/R	Mode: - FCC test setup - supply voltage 115 V AC - RF-modem mounted in notebook AT&T Globalyst 200 via PC-card extender Sycard PCCextend 50A - shielding of PC-card extender improved - operating with bit rate 2 Mbps - TX mode with f = 2.442 GHz Test distance 3 meters Channel A (red) = horizontal polarization
Serial No.: 01UT33300016	
Applicant: Agere Systems Nederland B.V.	

Ref.Level 130 dBµV/m ATT 5 dB Ref. Offset 21.3 dB
10 dB/Div.



Start 2.367 GHz Stop 2.517 GHz
RBW 1 MHz VBW 1 MHz SWP 20 ms

Multi Marker List

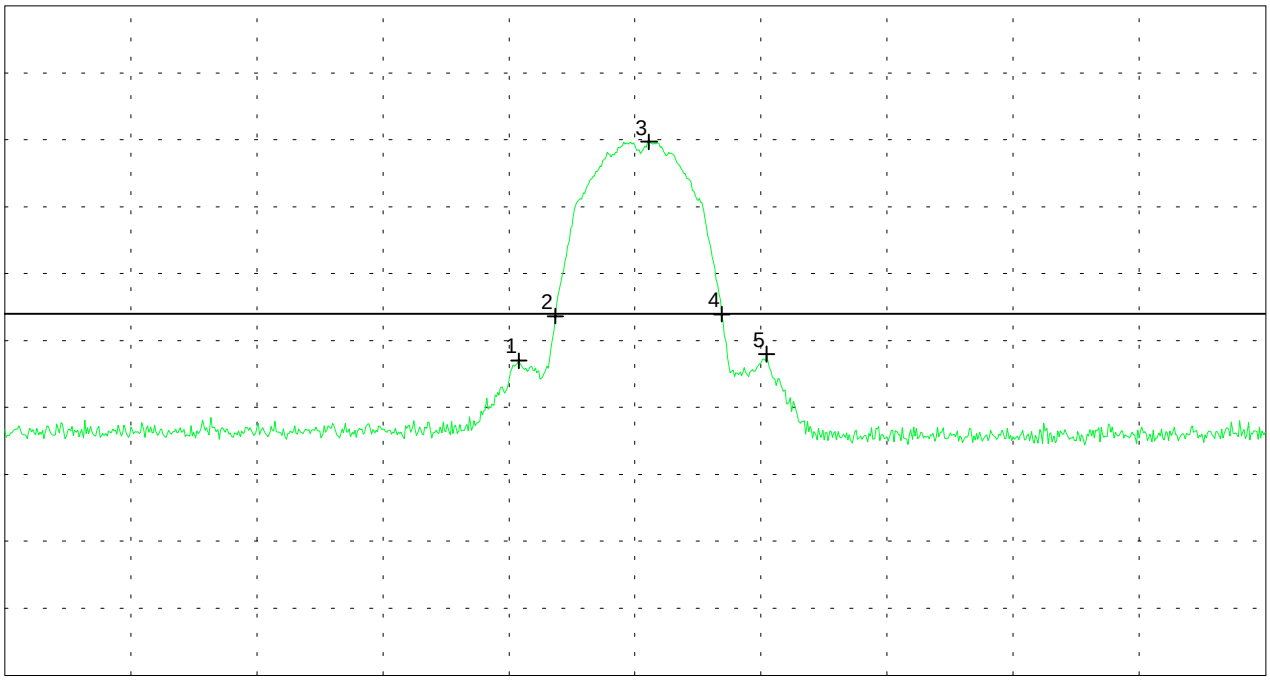
No. 1	2.427667 GHz	70.42 dBµV/m
No. 2	2.432167 GHz	73.95 dBµV/m
No. 3	2.444000 GHz	103.17 dBµV/m
No. 4	2.452833 GHz	73.54 dBµV/m
No. 5	2.457500 GHz	70.92 dBµV/m

Tested by: Rainer Heller	Project-No.: 56305-10552-1
Date: 08/31/2001	Page 126 of 157 Pages

Radiated Emission 1 GHz - 25 GHz acc. to FCC Part 15 Subpart C

Model: PC24E-11-FC/R	Mode: - FCC test setup - supply voltage 115 V AC - RF-modem mounted in notebook AT&T Globalyst 200 via PC-card extender Sycard PCCextend 50A - shielding of PC-card extender improved - operating with bit rate 2 Mbps - TX mode with f = 2.442 GHz Test distance 3 meters Channel B (green) = vertical polarization
Serial No.: 01UT33300016	
Applicant: Agere Systems Nederland B.V.	

Ref.Level 120 dBµV/m ATT 5 dB Ref. Offset 21.3 dB
10 dB/Div.



Start 2.367 GHz Stop 2.517 GHz
RBW 1 MHz VBW 1 MHz SWP 20 ms

Multi Marker List

No. 1	2.428167 GHz	66.99 dBµV/m
No. 2	2.432500 GHz	73.62 dBµV/m
No. 3	2.443667 GHz	99.70 dBµV/m
No. 4	2.452333 GHz	73.92 dBµV/m
No. 5	2.457667 GHz	67.96 dBµV/m

Tested by: Rainer Heller	Project-No.: 56305-10552-1
Date: 08/31/2001	

Radiated Emission 1 GHz - 25 GHz (Additional Test Results) according to FCC Part 15 Subpart C

Model: PC24E-11-FC/R
Type: RF-modem for wireless LAN
Serial No.: 01UT33300016
Applicant: Agere Systems Nederland B.V.
Test-site: Semi anechoic room
Test distance: 3 meters
Date of test: 08/30/2000
Operator: R. Heller

Mode:
- FCC test setup
- supply voltage 115 V AC
- RF-modem mounted in notebook AT&T Globalyst 200 via PC-card extender Sycard PCCextend 50A
- shielding of PC-card extender improved

- operating with bit rate 2 Mbps

- TX mode with f = 2.442 GHz

Detector: Average

Frequency [GHz]	Polarization	Analyzer-reading [dBµV]	Generator-level [dBm]	Cable loss [dB]	Antenna-correction [dB]	Fieldstrength [dBµV/m]	Limit [dBµV/m]
2.4237	horizontal	53.3		0.6	20.7	53.3	OB
2.4428	horizontal	99.6		0.6	20.7	99.6	OB
2.4607	horizontal	54.0		0.6	20.7	54.0	OB
2.6615	horizontal	44.9		0.6	23.7	44.9	54
2.7072	vertical	47.9		0.6	23.7	47.9	54
2.7290	vertical	43.9		0.6	23.7	43.9	54
2.7435	vertical	43.3		0.6	23.7	43.3	54
4.8843	vertical	46.9	-87.3		27.3	47.0	54

Note 1: OB means "operation band" (2400 - 2483.5 MHz); in this case limit is 1 W (measured conducted with power meter).
NRB means "non restricted band"; in this case limit is 20 dB below maximum in-band-power equivalent to 99.6 dBµV/m.

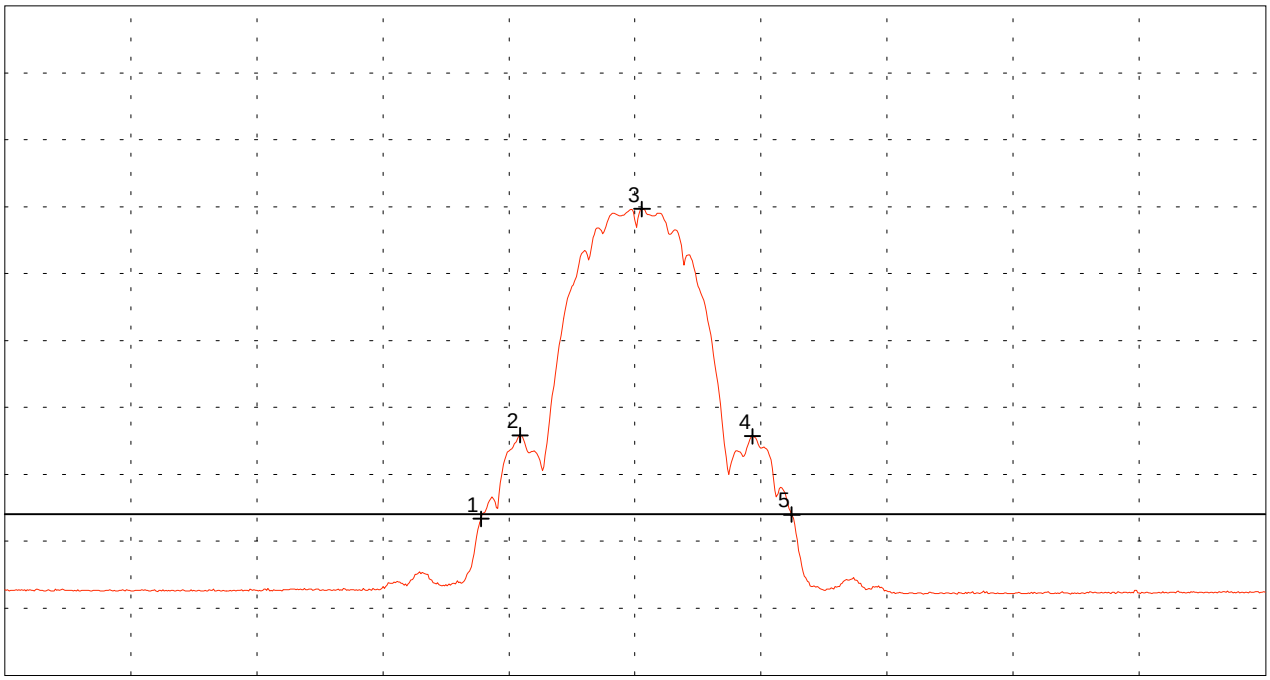
Note 2: Extent of testing harmonics with 2 Mbps selected according to results of radiated emission with 11 Mbps (peak)

Result: The limits are kept

Radiated Emission 1 GHz - 25 GHz acc. to FCC Part 15 Subpart C

Model: PC24E-11-FC/R	Mode: - FCC test setup - supply voltage 115 V AC - RF-modem mounted in notebook AT&T Globalyst 200 via PC-card extender Sycard PCCextend 50A - shielding of PC-card extender improved - operating with bit rate 2 Mbps - TX mode with f = 2.442 GHz Test distance 3 meters Channel A (red) = horizontal polarization
Serial No.: 01UT33300016	
Applicant: Agere Systems Nederland B.V.	

Ref.Level 130 dBµV/m ATT 5 dB Ref. Offset 21.3 dB
10 dB/Div.



Start 2.367 GHz Stop 2.517 GHz
RBW 1 MHz VBW 1 kHz SWP 460 ms

Multi Marker List

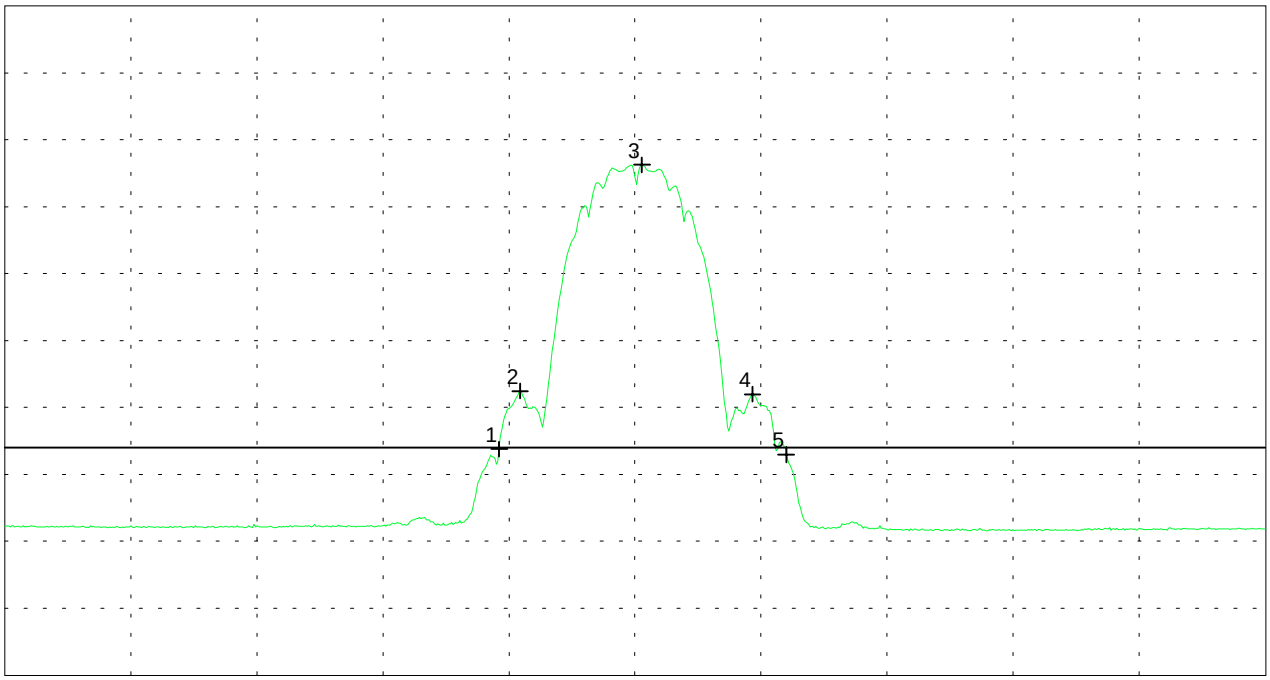
No. 1	2.423667 GHz	53.33 dBµV/m
No. 2	2.428333 GHz	65.85 dBµV/m
No. 3	2.442833 GHz	99.64 dBµV/m
No. 4	2.456000 GHz	65.67 dBµV/m
No. 5	2.460667 GHz	53.96 dBµV/m

Tested by: Rainer Heller	Project-No.: 56305-10552-1
Date: 08/31/2001	

Radiated Emission 1 GHz - 25 GHz acc. to FCC Part 15 Subpart C

Model: PC24E-11-FC/R	Mode: - FCC test setup - supply voltage 115 V AC - RF-modem mounted in notebook AT&T Globalyst 200 via PC-card extender Sycard PCCextend 50A - shielding of PC-card extender improved - operating with bit rate 2 Mbps - TX mode with f = 2.442 GHz Test distance 3 meters Channel B (green) = vertical polarization
Serial No.: 01UT33300016	
Applicant: Agere Systems Nederland B.V.	

Ref.Level 120 dBµV/m ATT 5 dB Ref. Offset 21.3 dB
10 dB/Div.



Start 2.367 GHz Stop 2.517 GHz
RBW 1 MHz VBW 1 kHz SWP 460 ms

Multi Marker List

No. 1	2.425833 GHz	53.76 dBµV/m
No. 2	2.428333 GHz	62.45 dBµV/m
No. 3	2.442833 GHz	96.24 dBµV/m
No. 4	2.456000 GHz	61.96 dBµV/m
No. 5	2.460000 GHz	52.92 dBµV/m

Tested by: Rainer Heller	Project-No.: 56305-10552-1
Date: 08/31/2001	

Radiated Emission 1 GHz - 25 GHz
according to FCC Part 15 Subpart C

Model: PC24E-11-FC/R
Type: RF-modem for wireless LAN
Serial No.: 01UT33300016
Applicant: Agere Systems Nederland B.V.
Test-site: Semi anechoic room
Test distance: 3 meters
Date of test: 08/30/2000
Operator: R. Heller

Mode:
- FCC test setup
- supply voltage 115 V AC
- RF-modem mounted in notebook AT&T Globalyst 200 via PC-card extender Sycard PCCextend 50A
- shielding of PC-card extender improved

- operating with bit rate 11 Mbps

- TX mode with f = 2.462 GHz

Detector: Peak

Frequency [GHz]	Polarization	Analyzer-reading [dBµV]	Generator-level [dBm]	Cable loss [dB]	Antenna-correction [dB]	Fieldstrength [dBµV/m]	Limit [dBµV/m]
2.4520	horizontal	72.5		0.6	20.7	72.5	OB
2.4615	horizontal	104.9		0.6	20.7	104.9	OB
2.4730	horizontal	71.5		0.6	20.7	71.5	OB
2.4835	horizontal	55.1		0.6	20.7	55.1	74
2.4940	horizontal	56.7		0.6	20.7	56.7	74
2.5000	horizontal	54.5		0.6	20.7	54.5	74
2.7260	vertical	51.9		0.6	23.7	51.9	74
4.9296	vertical	46.2	-88.2		27.3	46.1	74
7.3906	vertical	44.1	-92.0		30.0	45.0	74

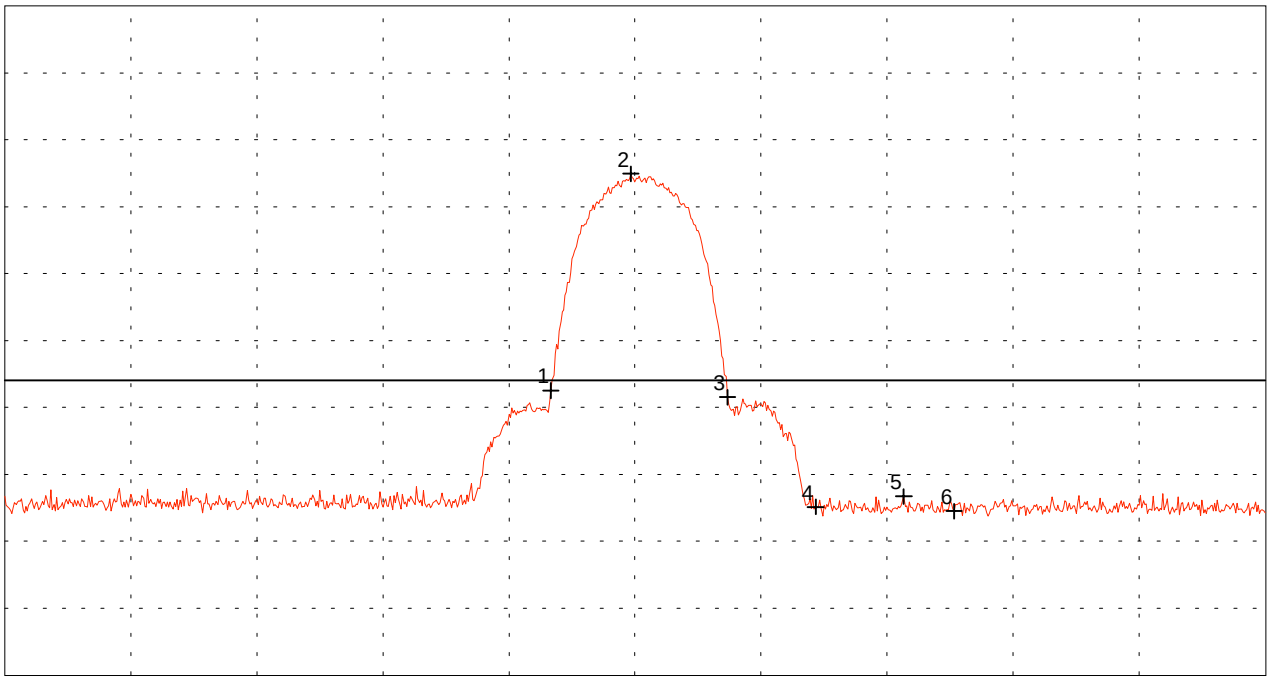
Note: OB means "operation band" (2400 - 2483.5 MHz); in this case limit is 1 W (measured conducted with power meter).
NRB means "non restricted band"; in this case limit is 20 dB below maximum in-band-power equivalent to 104.9 dBµV/m.

Result: The limits are kept

Radiated Emission 1 GHz - 25 GHz acc. to FCC Part 15 Subpart C

Model: PC24E-11-FC/R	Mode: - FCC test setup - supply voltage 115 V AC - RF-modem mounted in notebook AT&T Globalyst 200 via PC-card extender Sycard PCCextend 50A - shielding of PC-card extender improved - operating with bit rate 11 Mbps - TX mode with f = 2.462 GHz Test distance 3 meters Channel A (red) = horizontal polarization
Serial No.: 01UT33300016	
Applicant: Agere Systems Nederland B.V.	

Ref.Level 130 dBµV/m ATT 5 dB Ref. Offset 21.3 dB
10 dB/Div.



Start 2.387 GHz Stop 2.537 GHz
RBW 1 MHz VBW 1 MHz SWP 20 ms

Multi Marker List

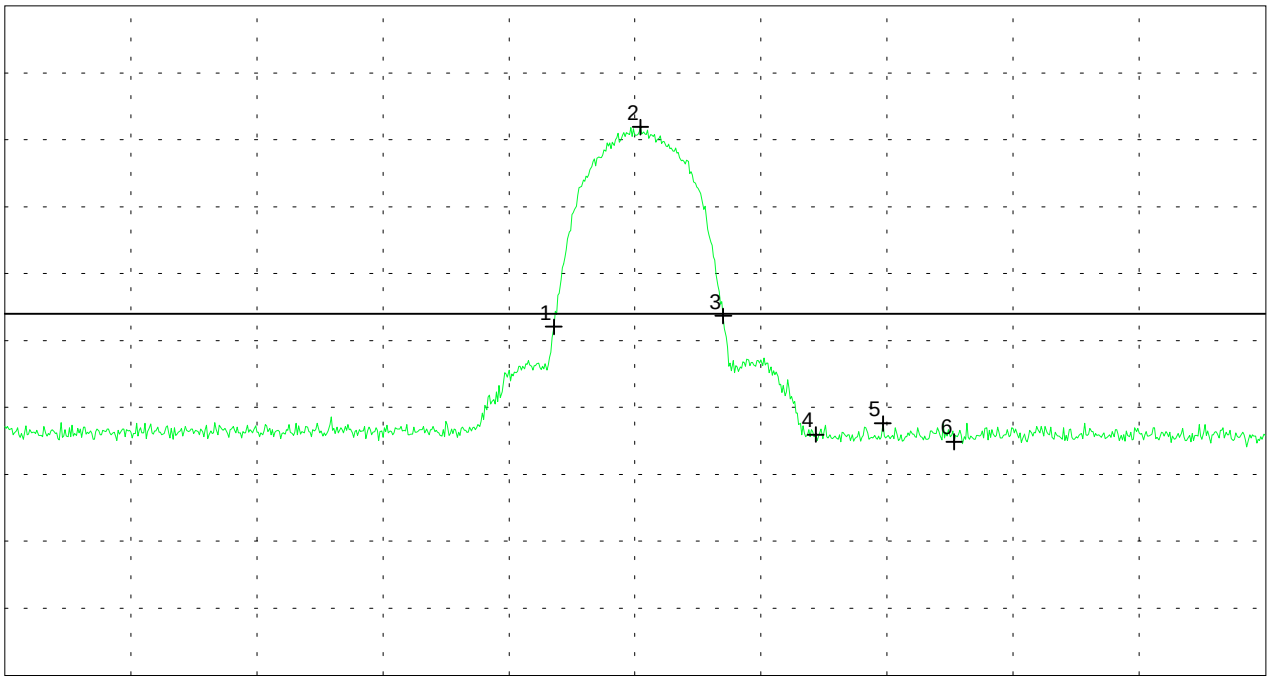
No. 1	2.452000 GHz	72.50 dBµV/m
No. 2	2.461500 GHz	104.90 dBµV/m
No. 3	2.473000 GHz	71.51 dBµV/m
No. 4	2.483500 GHz	55.10 dBµV/m
No. 5	2.494000 GHz	56.68 dBµV/m
No. 6	2.500000 GHz	54.47 dBµV/m

Tested by: Rainer Heller	Project-No.: 56305-10552-1
Date: 08/31/2001	

Radiated Emission 1 GHz - 25 GHz acc. to FCC Part 15 Subpart C

Model: PC24E-11-FC/R	Mode: - FCC test setup - supply voltage 115 V AC - RF-modem mounted in notebook AT&T Globalyst 200 via PC-card extender Sycard PCCextend 50A - shielding of PC-card extender improved - operating with bit rate 11 Mbps - TX mode with f = 2.462 GHz Test distance 3 meters Channel B (green) = vertical polarization
Serial No.: 01UT33300016	
Applicant: Agere Systems Nederland B.V.	

Ref.Level 120 dBµV/m ATT 5 dB Ref. Offset 21.3 dB
10 dB/Div.



Start 2.387 GHz Stop 2.537 GHz
RBW 1 MHz VBW 1 MHz SWP 20 ms

Multi Marker List

No. 1	2.452333 GHz	72.04 dBµV/m
No. 2	2.462667 GHz	101.88 dBµV/m
No. 3	2.472500 GHz	73.67 dBµV/m
No. 4	2.483500 GHz	55.92 dBµV/m
No. 5	2.491500 GHz	57.62 dBµV/m
No. 6	2.500000 GHz	54.83 dBµV/m

Tested by: Rainer Heller	Project-No.: 56305-10552-1
Date: 08/31/2001	

Radiated Emission 1 GHz - 25 GHz
according to FCC Part 15 Subpart C

Model: PC24E-11-FC/R
Type: RF-modem for wireless LAN
Serial No.: 01UT33300016
Applicant: Agere Systems Nederland B.V.
Test-site: Semi anechoic room
Test distance: 3 meters
Date of test: 08/30/2000
Operator: R. Heller

Mode:
- FCC test setup
- supply voltage 115 V AC
- RF-modem mounted in notebook AT&T Globalyst 200 via PC-card extender Sycard PCCextend 50A
- shielding of PC-card extender improved

- operating with bit rate 11 Mbps

- TX mode with f = 2.462 GHz

Detector: Average

Frequency [GHz]	Polarization	Analyzer-reading [dBµV]	Generator-level [dBm]	Cable loss [dB]	Antenna-correction [dB]	Fieldstrength [dBµV/m]	Limit [dBµV/m]
2.4448	horizontal	53.6		0.6	20.7	53.6	OB
2.4628	horizontal	98.6		0.6	20.7	98.6	OB
2.4800	horizontal	53.6		0.6	20.7	53.6	OB
2.4835	horizontal	43.0		0.6	20.7	43.0	54
2.4867	horizontal	43.3		0.6	20.7	43.3	54
2.5000	horizontal	42.2		0.6	20.7	42.2	54
2.7262	vertical	45.3		0.6	23.7	45.3	54
2.7535	vertical	42.2		0.6	23.7	42.2	54
4.9240	vertical	41.7	-92.5		27.3	41.8	54

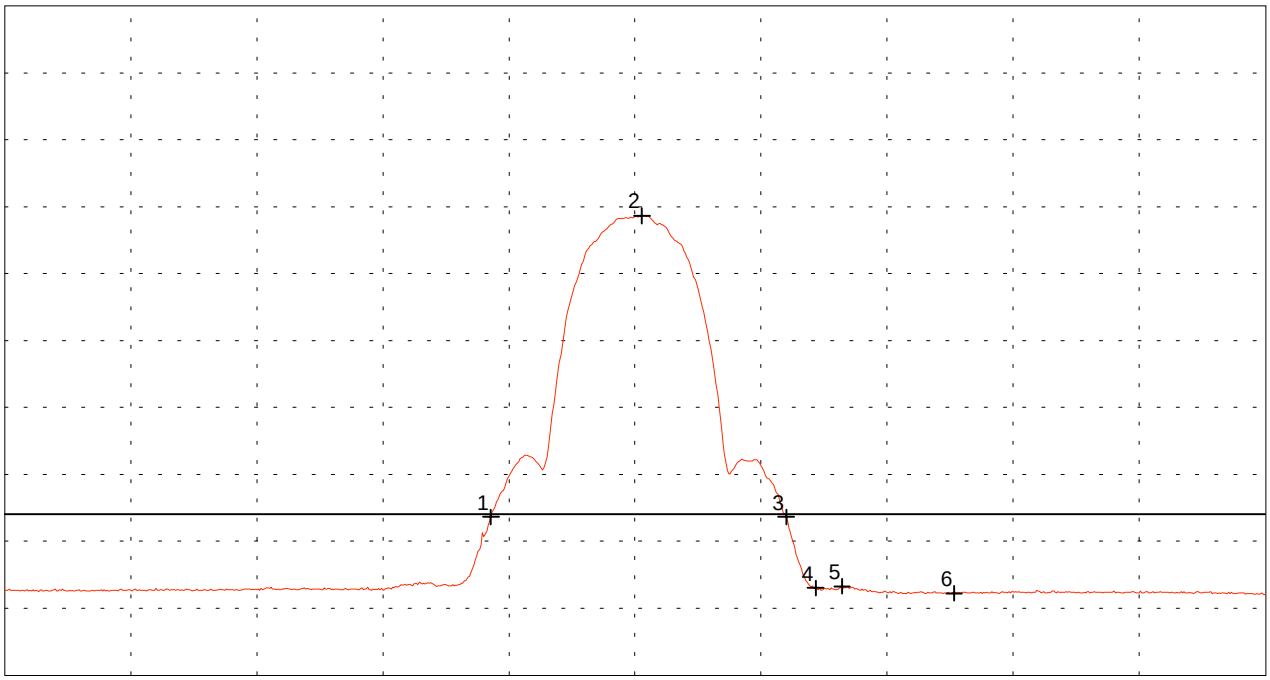
Note: OB means "operation band" (2400 - 2483.5 MHz); in this case limit is 1 W (measured conducted with power meter).
NRB means "non restricted band"; in this case limit is 20 dB below maximum in-band-power equivalent to 98.6 dBµV/m.

Result: The limits are kept

Radiated Emission 1 GHz - 25 GHz acc. to FCC Part 15 Subpart C

Model: PC24E-11-FC/R	Mode: - FCC test setup - supply voltage 115 V AC - RF-modem mounted in notebook AT&T Globalyst 200 via PC-card extender Sycard PCCextend 50A - shielding of PC-card extender improved - operating with bit rate 11 Mbps - TX mode with f = 2.462 GHz Test distance 3 meters Channel A (red) = horizontal polarization
Serial No.: 01UT33300016	
Applicant: Agere Systems Nederland B.V.	

Ref.Level 130 dBµV/m ATT 5 dB Ref. Offset 21.3 dB
10 dB/Div.



Start 2.387 GHz Stop 2.537 GHz
RBW 1 MHz VBW 1 kHz SWP 460 ms

Multi Marker List

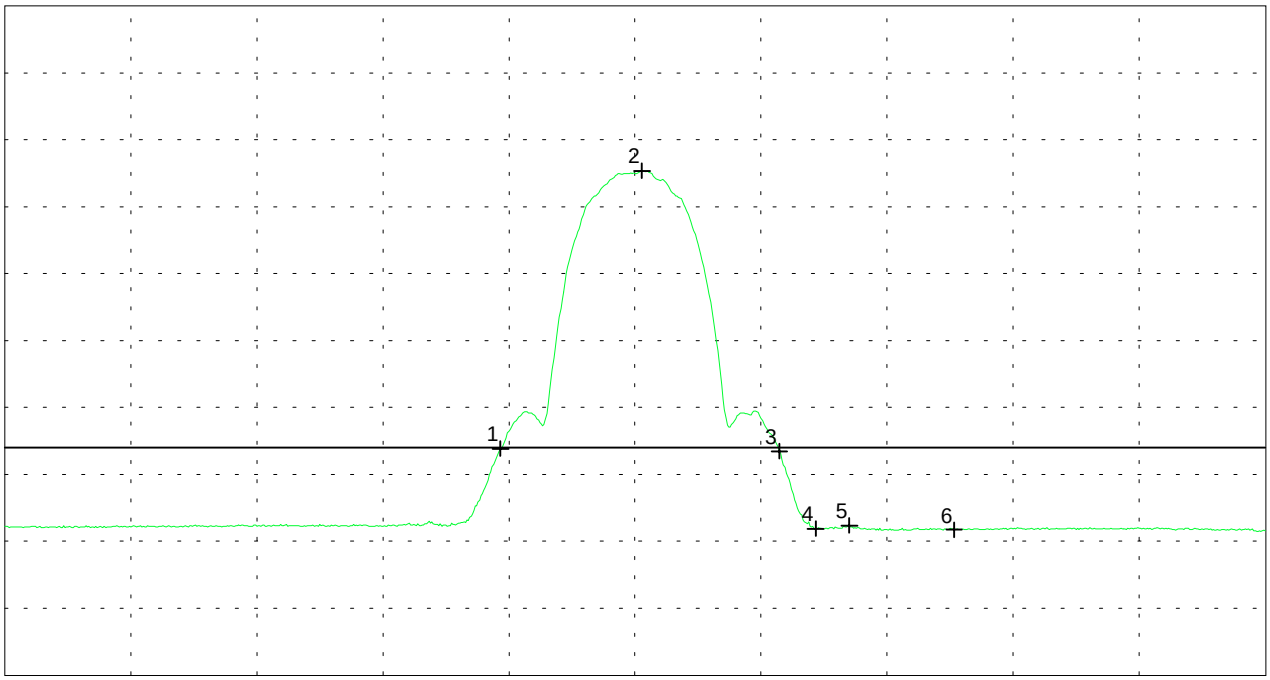
No. 1	2.444833 GHz	53.63 dBµV/m
No. 2	2.462833 GHz	98.63 dBµV/m
No. 3	2.480000 GHz	53.63 dBµV/m
No. 4	2.483500 GHz	42.99 dBµV/m
No. 5	2.486667 GHz	43.25 dBµV/m
No. 6	2.500000 GHz	42.20 dBµV/m

Tested by: Rainer Heller	Project-No.: 56305-10552-1
Date: 08/31/2001	

Radiated Emission 1 GHz - 25 GHz acc. to FCC Part 15 Subpart C

Model: PC24E-11-FC/R	Mode: - FCC test setup - supply voltage 115 V AC - RF-modem mounted in notebook AT&T Globalyst 200 via PC-card extender Sycard PCCextend 50A - shielding of PC-card extender improved - operating with bit rate 11 Mbps - TX mode with f = 2.462 GHz Test distance 3 meters Channel B (green) = vertical polarization
Serial No.: 01UT33300016	
Applicant: Agere Systems Nederland B.V.	

Ref.Level 120 dBµV/m ATT 5 dB Ref. Offset 21.3 dB
10 dB/Div.



Start 2.387 GHz Stop 2.537 GHz
RBW 1 MHz VBW 1 kHz SWP 460 ms

Multi Marker List

No. 1	2.446000 GHz	53.81 dBµV/m
No. 2	2.462833 GHz	95.36 dBµV/m
No. 3	2.479167 GHz	53.46 dBµV/m
No. 4	2.483500 GHz	41.88 dBµV/m
No. 5	2.487500 GHz	42.33 dBµV/m
No. 6	2.500000 GHz	41.72 dBµV/m

Tested by: Rainer Heller	Project-No.: 56305-10552-1
Date: 08/31/2001	

Radiated Emission 1 GHz - 25 GHz (Additional Test Results) according to FCC Part 15 Subpart C

Model: PC24E-11-FC/R
Type: RF-modem for wireless LAN
Serial No.: 01UT33300016
Applicant: Agere Systems Nederland B.V.
Test-site: Semi anechoic room
Test distance: 3 meters
Date of test: 08/30/2000
Operator: R. Heller

Mode:
- FCC test setup
- supply voltage 115 V AC
- RF-modem mounted in notebook AT&T Globalyst 200 via PC-card extender Sycard PCCextend 50A
- shielding of PC-card extender improved

- operating with bit rate 2 Mbps

- TX mode with f = 2.462 GHz

Detector: Peak

Frequency [GHz]	Polarization	Analyzer-reading [dBµV]	Generator-level [dBm]	Cable loss [dB]	Antenna-correction [dB]	Fieldstrength [dBµV/m]	Limit [dBµV/m]
2.4522	horizontal	72.8		0.6	20.7	72.8	OB
2.4615	horizontal	102.5		0.6	20.7	102.5	OB
2.4728	horizontal	72.4		0.6	20.7	72.4	OB
2.4835	horizontal	53.9		0.6	20.7	53.9	74
2.4970	horizontal	56.9		0.6	20.7	56.9	74
2.5000	horizontal	56.0		0.6	20.7	56.0	74
2.6863	vertical	49.7		0.6	23.7	49.7	74
2.7255	horizontal	52.0		0.6	23.7	52.0	74
2.7542	vertical	51.6		0.6	23.7	51.6	74
2.7690	vertical	48.9		0.6	23.7	48.9	74
4.9241	vertical	47.7	-86.7		27.3	47.6	74

Note 1: OB means "operation band" (2400 - 2483.5 MHz); in this case limit is 1 W (measured conducted with power meter).
NRB means "non restricted band"; in this case limit is 20 dB below maximum in-band-power equivalent to 102.5 dBµV/m.

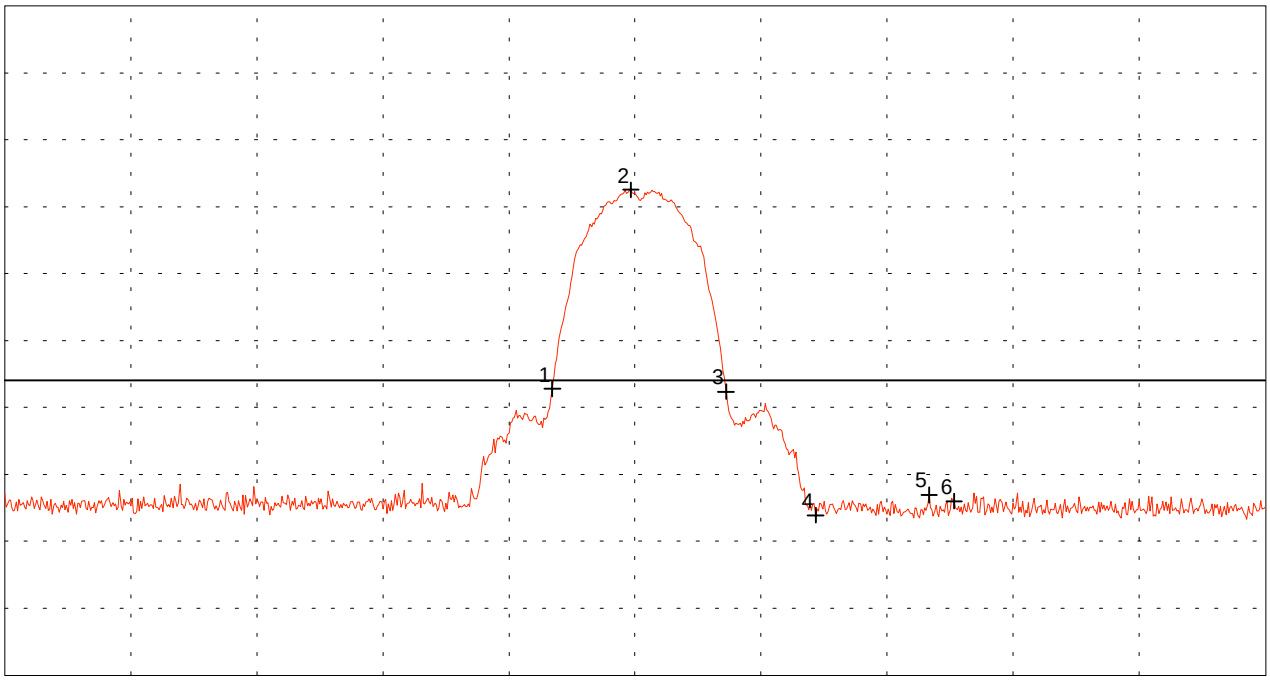
Note 2: Extent of testing harmonics with 2 Mbps selected according to results of radiated emission with 11 Mbps (peak)

Result: The limits are kept

Radiated Emission 1 GHz - 25 GHz acc. to FCC Part 15 Subpart C

Model: PC24E-11-FC/R	Mode: - FCC test setup - supply voltage 115 V AC - RF-modem mounted in notebook AT&T Globalyst 200 via PC-card extender Sycard PCCextend 50A - shielding of PC-card extender improved - operating with bit rate 2 Mbps - TX mode with f = 2.462 GHz Test distance 3 meters Channel A (red) = horizontal polarization
Serial No.: 01UT33300016	
Applicant: Agere Systems Nederland B.V.	

Ref.Level 130 dBµV/m ATT 5 dB Ref. Offset 21.3 dB
10 dB/Div.



Start 2.387 GHz Stop 2.537 GHz
RBW 1 MHz VBW 1 MHz SWP 20 ms

Multi Marker List

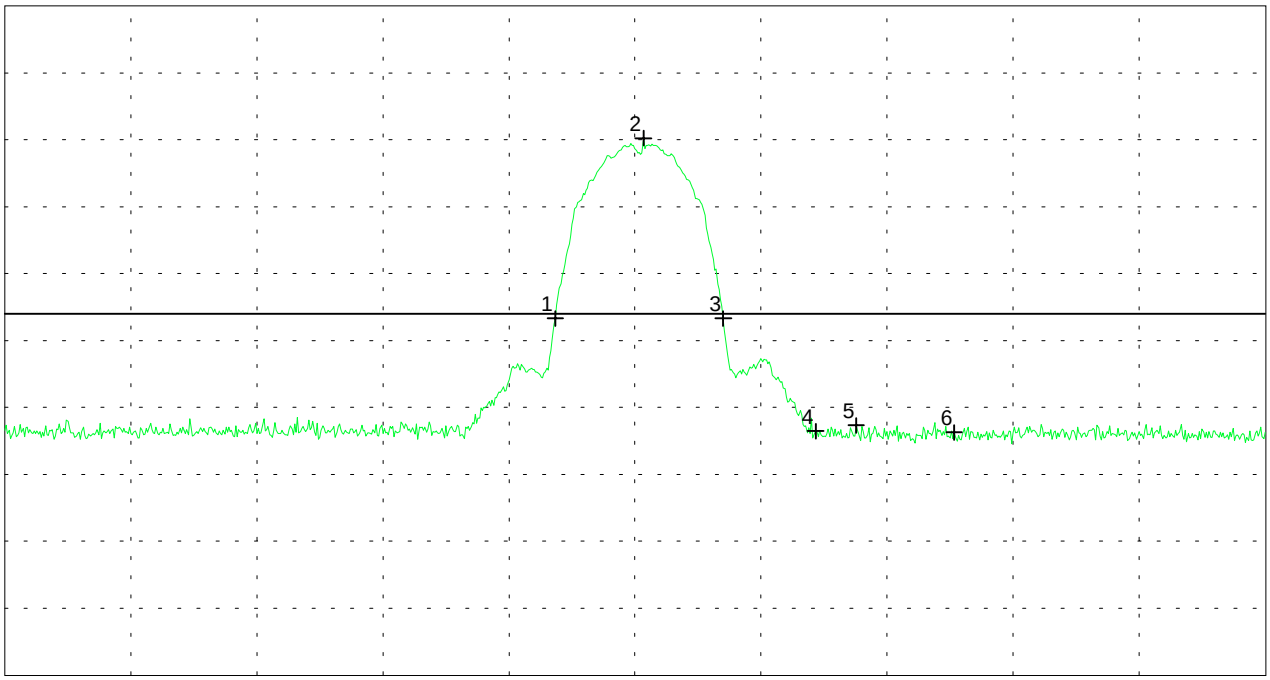
No. 1	2.452167 GHz	72.75 dBµV/m
No. 2	2.461500 GHz	102.51 dBµV/m
No. 3	2.472833 GHz	72.35 dBµV/m
No. 4	2.483500 GHz	53.89 dBµV/m
No. 5	2.497000 GHz	56.91 dBµV/m
No. 6	2.500000 GHz	55.97 dBµV/m

Tested by: Rainer Heller	Project-No.: 56305-10552-1
Date: 08/31/2001	

Radiated Emission 1 GHz - 25 GHz acc. to FCC Part 15 Subpart C

Model: PC24E-11-FC/R	Mode: - FCC test setup - supply voltage 115 V AC - RF-modem mounted in notebook AT&T Globalyst 200 via PC-card extender Sycard PCCextend 50A - shielding of PC-card extender improved - operating with bit rate 2 Mbps - TX mode with f = 2.462 GHz Test distance 3 meters Channel B (green) = vertical polarization
Serial No.: 01UT33300016	
Applicant: Agere Systems Nederland B.V.	

Ref.Level 120 dBµV/m ATT 5 dB Ref. Offset 21.3 dB
10 dB/Div.



Start 2.387 GHz Stop 2.537 GHz
RBW 1 MHz VBW 1 MHz SWP 20 ms

Multi Marker List

No. 1	2.452500 GHz	73.31 dBµV/m
No. 2	2.463000 GHz	100.26 dBµV/m
No. 3	2.472500 GHz	73.31 dBµV/m
No. 4	2.483500 GHz	56.45 dBµV/m
No. 5	2.488333 GHz	57.32 dBµV/m
No. 6	2.500000 GHz	56.25 dBµV/m

Tested by: Rainer Heller	Project-No.: 56305-10552-1
Date: 08/31/2001	

Radiated Emission 1 GHz - 25 GHz (Additional Test Results) according to FCC Part 15 Subpart C

Model: PC24E-11-FC/R
Type: RF-modem for wireless LAN
Serial No.: 01UT33300016
Applicant: Agere Systems Nederland B.V.
Test-site: Semi anechoic room
Test distance: 3 meters
Date of test: 08/30/2000
Operator: R. Heller

Mode:
- FCC test setup
- supply voltage 115 V AC
- RF-modem mounted in notebook AT&T Globalyst 200 via PC-card extender Sycard PCCextend 50A
- shielding of PC-card extender improved

- operating with bit rate 2 Mbps

- TX mode with f = 2.462 GHz

Detector: Average

Frequency [GHz]	Polarization	Analyzer-reading [dBµV]	Generator-level [dBm]	Cable loss [dB]	Antenna-correction [dB]	Fieldstrength [dBµV/m]	Limit [dBµV/m]
2.4443	horizontal	53.5		0.6	20.7	53.5	OB
2.4615	horizontal	99.2		0.6	20.7	99.2	OB
2.4803	horizontal	54.0		0.6	20.7	54.0	OB
2.4835	horizontal	42.6		0.6	20.7	42.6	54
2.4883	horizontal	43.7		0.6	20.7	43.7	54
2.5000	horizontal	42.4		0.6	20.7	42.4	54
2.6833	vertical	42.4		0.6	23.7	42.4	54
2.7270	vertical	47.5		0.6	23.7	47.5	54
2.7533	vertical	45.1		0.6	23.7	45.1	54
2.7715	vertical	41.4		0.7	23.7	41.4	54
4.9241	vertical	42.8	-91.4		27.3	42.9	54

Note 1: OB means "operation band" (2400 - 2483.5 MHz); in this case limit is 1 W (measured conducted with power meter).
NRB means "non restricted band"; in this case limit is 20 dB below maximum in-band-power equivalent to 99.2 dBµV/m.

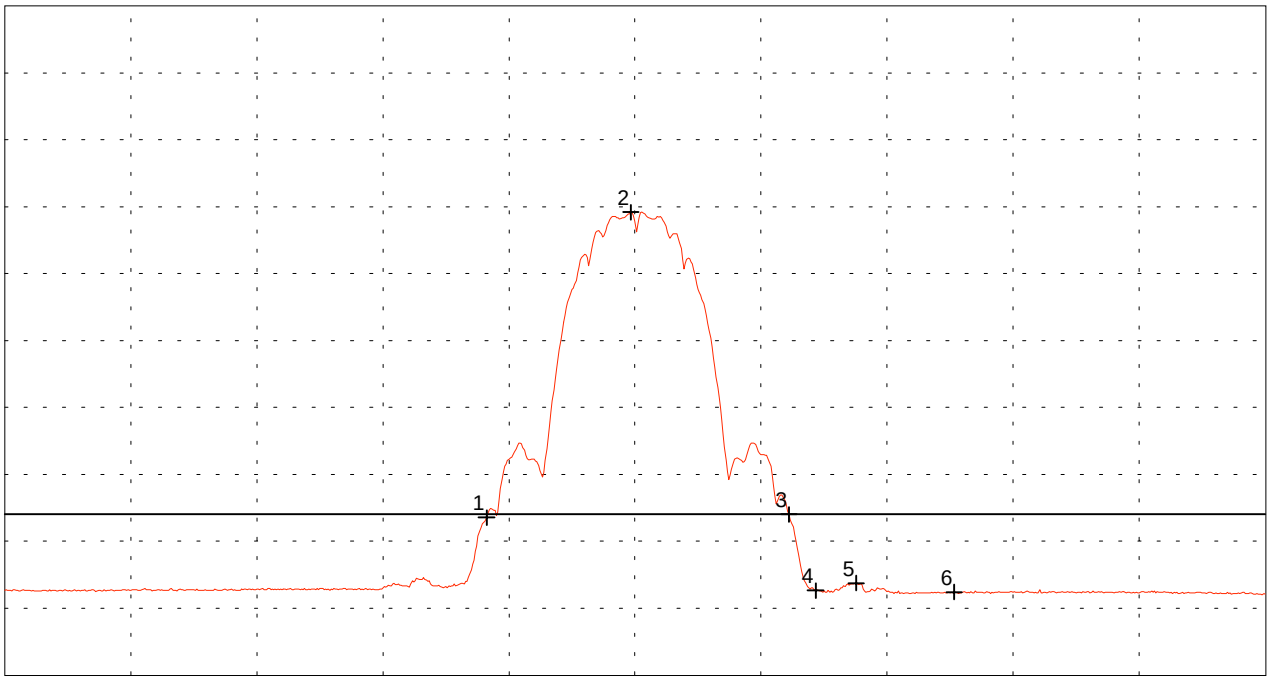
Note 2: Extent of testing harmonics with 2 Mbps selected according to results of radiated emission with 11 Mbps (peak)

Result: The limits are kept

Radiated Emission 1 GHz - 25 GHz acc. to FCC Part 15 Subpart C

Model: PC24E-11-FC/R	Mode: - FCC test setup - supply voltage 115 V AC - RF-modem mounted in notebook AT&T Globalyst 200 via PC-card extender Sycard PCCextend 50A - shielding of PC-card extender improved - operating with bit rate 2 Mbps - TX mode with f = 2.462 GHz Test distance 3 meters Channel A (red) = horizontal polarization
Serial No.: 01UT33300016	
Applicant: Agere Systems Nederland B.V.	

Ref.Level 130 dBµV/m ATT 5 dB Ref. Offset 21.3 dB
10 dB/Div.



Start 2.387 GHz Stop 2.537 GHz
RBW 1 MHz VBW 1 kHz SWP 460 ms

Multi Marker List

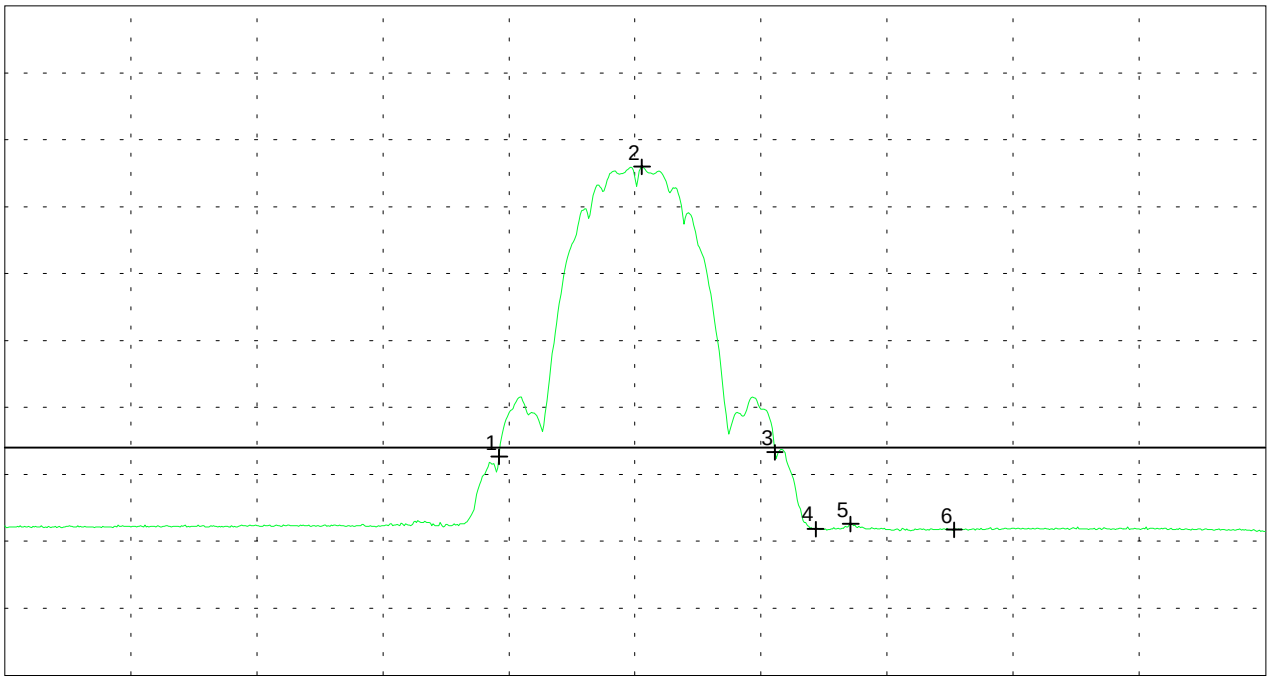
No. 1	2.444333 GHz	53.53 dBµV/m
No. 2	2.461500 GHz	99.16 dBµV/m
No. 3	2.480333 GHz	53.99 dBµV/m
No. 4	2.483500 GHz	42.61 dBµV/m
No. 5	2.488333 GHz	43.73 dBµV/m
No. 6	2.500000 GHz	42.38 dBµV/m

Tested by: Rainer Heller	Project-No.: 56305-10552-1
Date: 08/31/2001	

Radiated Emission 1 GHz - 25 GHz acc. to FCC Part 15 Subpart C

Model: PC24E-11-FC/R	Mode: - FCC test setup - supply voltage 115 V AC - RF-modem mounted in notebook AT&T Globalyst 200 via PC-card extender Sycard PCCextend 50A - shielding of PC-card extender improved - operating with bit rate 2 Mbps - TX mode with f = 2.462 GHz Test distance 3 meters Channel B (green) = vertical polarization
Serial No.: 01UT33300016	
Applicant: Agere Systems Nederland B.V.	

Ref.Level 120 dBµV/m ATT 5 dB Ref. Offset 21.3 dB
10 dB/Div.



Start 2.387 GHz Stop 2.537 GHz
RBW 1 MHz VBW 1 kHz SWP 460 ms

Multi Marker List

No. 1	2.445833 GHz	52.62 dBµV/m
No. 2	2.462833 GHz	95.96 dBµV/m
No. 3	2.478667 GHz	53.30 dBµV/m
No. 4	2.483500 GHz	41.83 dBµV/m
No. 5	2.487667 GHz	42.56 dBµV/m
No. 6	2.500000 GHz	41.72 dBµV/m

Tested by: Rainer Heller	Project-No.: 56305-10552-1
Date: 08/31/2001	

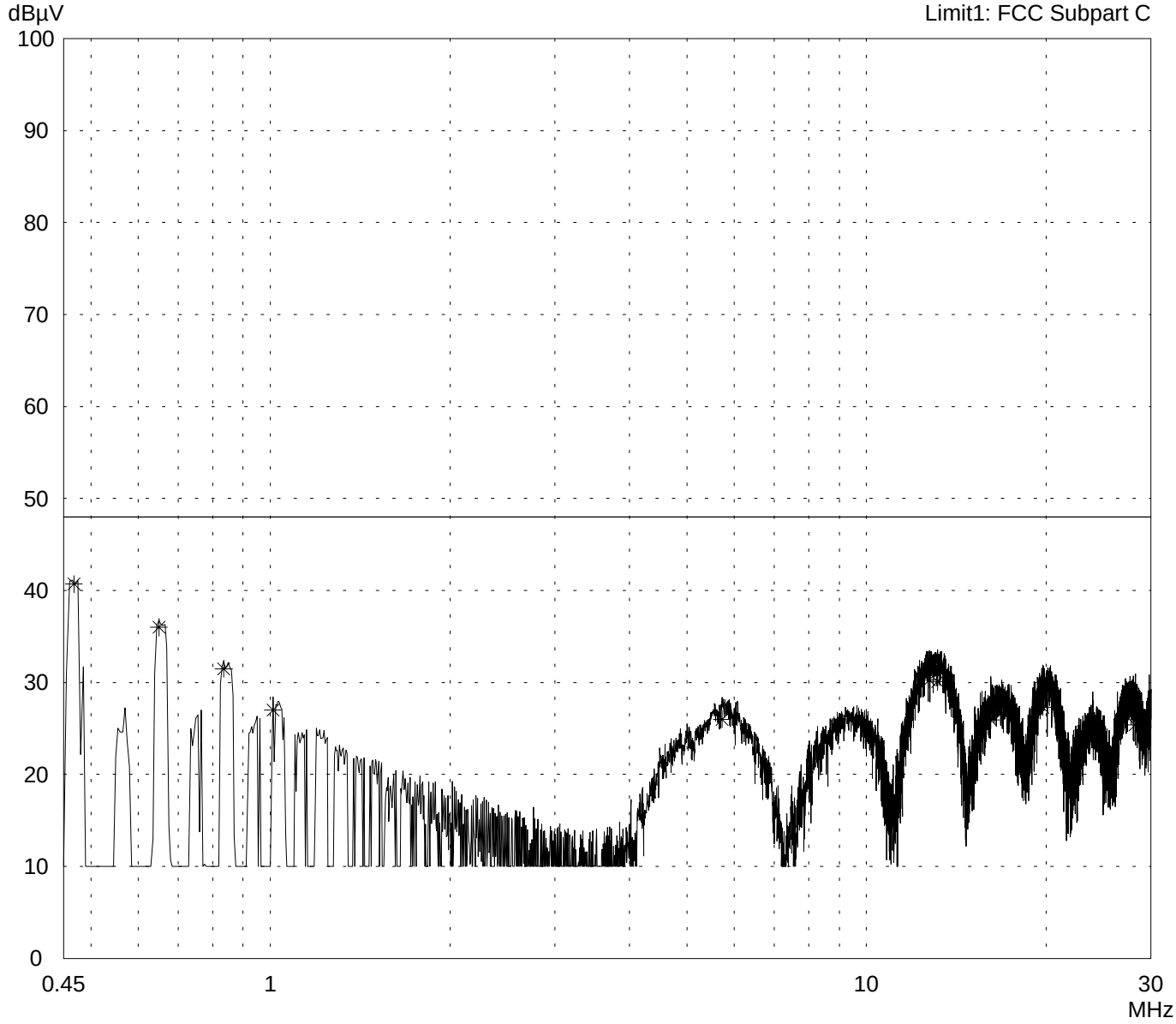
Test results for

Receive (RX) mode

Conducted Emission Test 450 kHz - 30 MHz
according to FCC Part 15 Subpart C

Model: PC24E-11-FC/R	Mode:
Serial no.: 01UT33300016	- FCC test setup - supply voltage 115 V AC - RF-modem mounted in notebook AT&T Globalyst 200 via PC-card extender Sycard PCCextend 50A - shielding of PC-card extender improved - display switched off - operating with bit rate 11 Mbps - RX mode with f = 2.442 GHz
Applicant: Agere Systems Nederland B.V.	
Test site: Shielded room, cabin no. 2	
Tested on: Linecord EUT (notebook) Phase L1	
Date of test: 08/30/2001 / Operator: R. Heller	
Test performed: automatically / File name:	

Detector: Peak / Final Results: QP	Final results: 20 dB Margin 25 Subranges



Result: Limit kept	Project file: 56305-10552-1 Page 144 of 157 Pages

Conducted Emission Test 450 kHz - 30 MHz
according to FCC Part 15 Subpart C

Model:
PC24E-11-FC/R

Serial no.:
01UT33300016

Applicant:
Agere Systems Nederland B.V.

Test site:
Shielded room, cabin no. 2

Tested on:
Linecord EUT (notebook)
Phase L1

Date of test: 08/30/2001
Operator: R. Heller

Test performed: automatically
File name:

Mode:
- FCC test setup
- supply voltage 115 V AC
- RF-modem mounted in notebook AT&T Globalyst 200 via PC-card extender Sycard PCCextend 50A
- shielding of PC-card extender improved
- display switched off

- operating with bit rate 11 Mbps

- RX mode with f = 2.442 GHz

Detector:
Peak / Final Results: QP

Final results:
20 dB Margin 25 Subranges

Frequency MHz	*Reading dBµV*	*Correction factor dB*	*Value dBµV*	*Limit dBµV*	*Limit exceeded*
0.468	40.7		40.7	48.0	
0.650	36.0		36.0	48.0	
0.835	31.5		31.5	48.0	
1.010	27.0		27.0	48.0	
5.725	26.0		26.0	48.0	
12.745	30.3		30.3	48.0	
13.160	30.1		30.1	48.0	
16.175	25.9		25.9	48.0	
19.750	27.3		27.3	48.0	
23.945	24.8		24.8	48.0	
28.235	25.4		25.4	48.0	

Result:
Limit kept

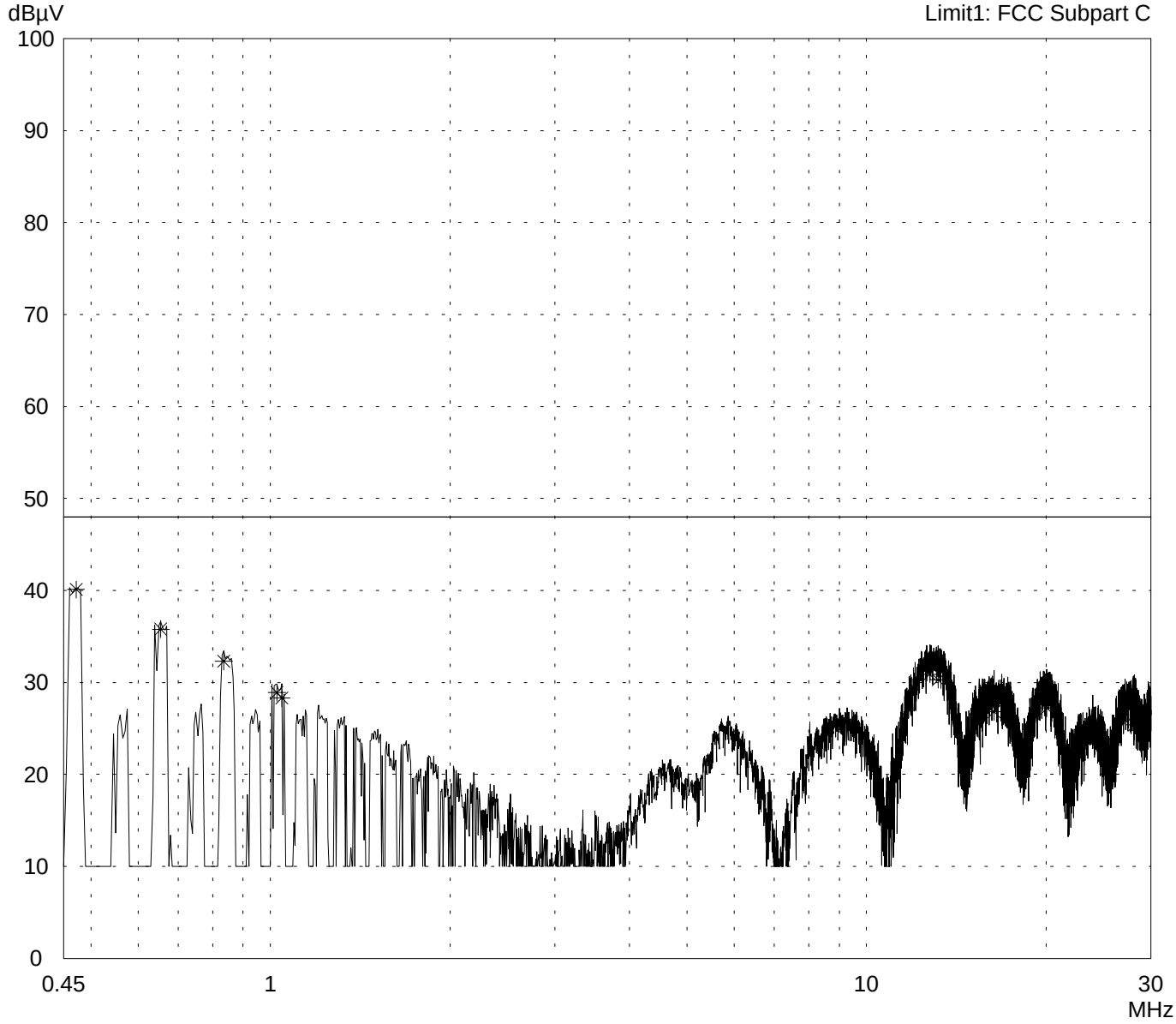
Project file:
56305-10552-1

Senton GmbH / EMI/EMC Laboratories / Aeussere Fruehlingsstrasse 45 / D-94315 Straubing / Tel. +49 9421 55220

Conducted Emission Test 450 kHz - 30 MHz
according to FCC Part 15 Subpart C

Model: PC24E-11-FC/R	Mode:
Serial no.: 01UT33300016	- FCC test setup - supply voltage 115 V AC - RF-modem mounted in notebook AT&T Globalyst 200 via PC-card extender Sycard PCCextend 50A - shielding of PC-card extender improved - display switched off - operating with bit rate 11 Mbps - RX mode with f = 2.442 GHz
Applicant: Agere Systems Nederland B.V.	
Test site: Shielded room, cabin no. 2	
Tested on: Linecord EUT (notebook) Phase N	
Date of test: 08/30/2001 / Operator: R. Heller	
Test performed: automatically / File name:	

Detector: Peak / Final Results: QP	Final results: 20 dB Margin 25 Subranges



Result: Limit kept	Project file: 56305-10552-1

Senton GmbH / EMI/EMC Laboratories / Aeussere Fruehlingsstrasse 45 / D-94315 Straubing / Tel. +49 9421 55220

Conducted Emission Test 450 kHz - 30 MHz
according to FCC Part 15 Subpart C

Model:
PC24E-11-FC/R

Serial no.:
01UT33300016

Applicant:
Agere Systems Nederland B.V.

Test site:
Shielded room, cabin no. 2

Tested on:
Linecord EUT (notebook)
Phase N

Date of test: 08/30/2001
Operator: R. Heller

Test performed: automatically
File name:

Mode:
- FCC test setup
- supply voltage 115 V AC
- RF-modem mounted in notebook AT&T Globalyst 200 via PC-card extender Sycard PCCextend 50A
- shielding of PC-card extender improved
- display switched off

- operating with bit rate 11 Mbps

- RX mode with f = 2.442 GHz

Detector:
Peak / Final Results: QP

Final results:
20 dB Margin 25 Subranges

Frequency MHz	*Reading dBµV*	*Correction factor dB*	*Value dBµV*	*Limit dBµV*	*Limit exceeded*
0.472	40.1		40.1	48.0	
0.655	35.8		35.8	48.0	
0.835	32.3		32.3	48.0	
1.025	28.9		28.9	48.0	
1.045	28.3		28.3	48.0	
12.765	30.9		30.9	48.0	
13.180	30.3		30.3	48.0	
16.365	26.8		26.8	48.0	
20.075	27.2		27.2	48.0	
23.945	24.6		24.6	48.0	
28.135	25.4		25.4	48.0	

Result:
Limit kept

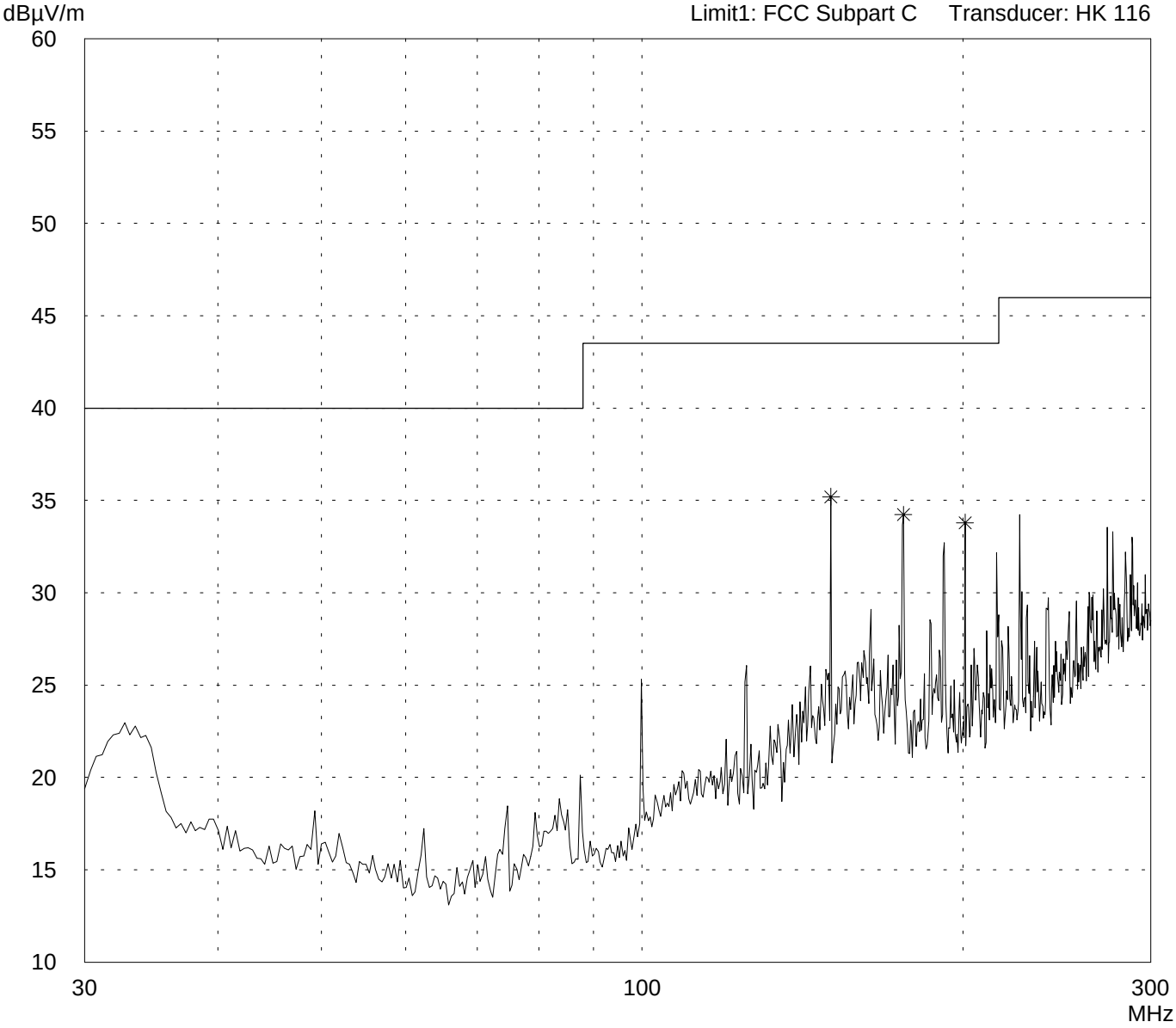
Project file:
56305-10552-1

Senton GmbH / EMI/EMC Laboratories / Aeussere Fruehlingsstrasse 45 / D-94315 Straubing / Tel. +49 9421 55220

Radiated Emission Test 30 MHz - 300 MHz
according to FCC Part 15 Subpart C

Model: PC24E-11-FC/R	Mode:
Serial no.: 01UT33300016	- FCC test setup - supply voltage 115 V AC - RF-modem mounted in notebook AT&T Globalyst 200 via PC-card extender Sycard PCCextend 50A - shielding of PC-card extender improved - display switched off - operating with bit rate 11 Mbps - RX mode with f = 2.442 GHz
Applicant: Agere Systems Nederland B.V.	
Test site: Semi anechoic room, cabin no. 3	
Tested on: Test distance 3 meters Horizontal Polarization	
Date of test: 08/24/2001 / Operator: R. Heller	
Test performed: automatically / File name:	

Detector: Peak	List of values: 10 dB Margin 50 Subranges



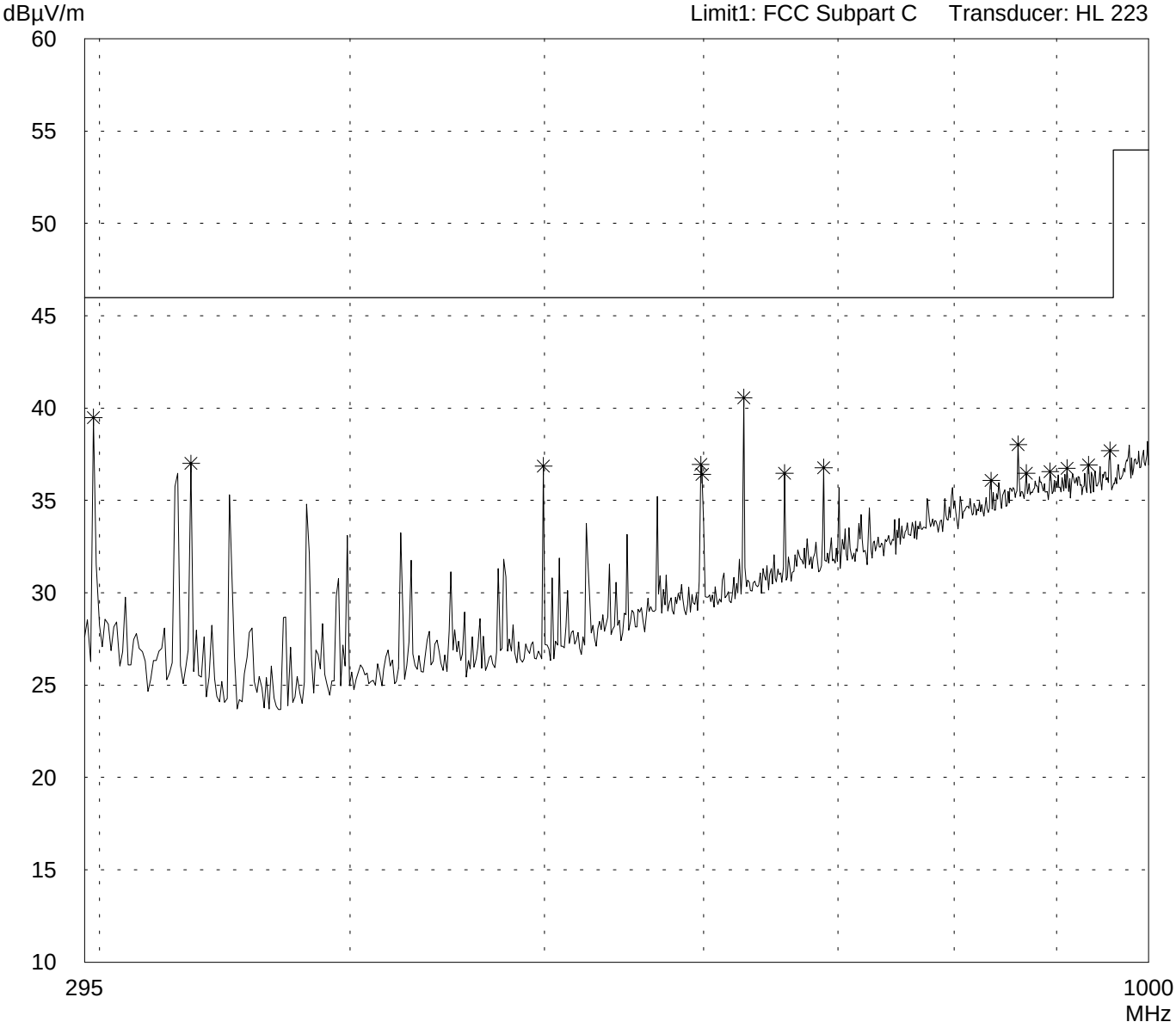
Result: Prescan	Project file: 56305-10552-1

Senton GmbH / EMI/EMC Laboratories / Aeussere Fruehlingsstrasse 45 / D-94315 Straubing / Tel. +49 9421 55220

Radiated Emission Test 295 MHz - 1 GHz
according to FCC Part 15 Subpart C

Model: PC24E-11-FC/R	Mode:
Serial no.: 01UT33300016	- FCC test setup - supply voltage 115 V AC - RF-modem mounted in notebook AT&T Globalyst 200 via PC-card extender Sycard PCCextend 50A - shielding of PC-card extender improved - display switched off - operating with bit rate 11 Mbps - RX mode with f = 2.442 GHz
Applicant: Agere Systems Nederland B.V.	
Test site: Semi anechoic room, cabin no. 3	
Tested on: Test distance 3 meters Horizontal Polarization	
Date of test: 08/24/2001 / Operator: R. Heller	
Test performed: automatically / File name:	

Detector: Peak	List of values: 10 dB Margin / 50 Subranges



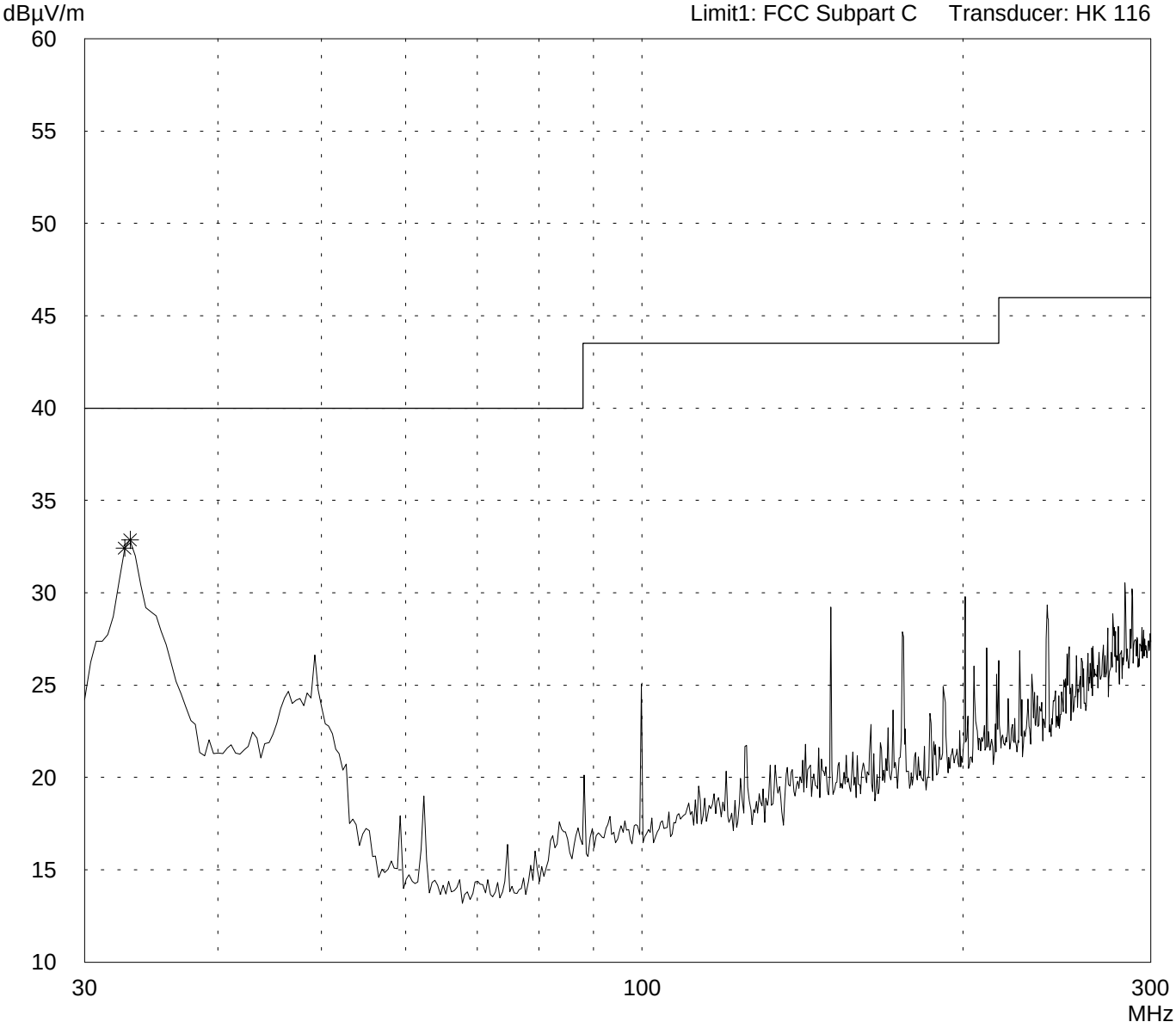
Result: Prescan	Project file: 56305-10552-1

Senton GmbH / EMI/EMC Laboratories / Aeussere Fruehlingsstrasse 45 / D-94315 Straubing / Tel. +49 9421 55220

Radiated Emission Test 30 MHz - 300 MHz
according to FCC Part 15 Subpart C

Model: PC24E-11-FC/R	Mode:
Serial no.: 01UT33300016	- FCC test setup - supply voltage 115 V AC - RF-modem mounted in notebook AT&T Globalyst 200 via PC-card extender Sycard PCCextend 50A - shielding of PC-card extender improved - display switched off - operating with bit rate 11 Mbps - RX mode with f = 2.442 GHz
Applicant: Agere Systems Nederland B.V.	
Test site: Semi anechoic room, cabin no. 3	
Tested on: Test distance 3 meters Vertical Polarization	
Date of test: 08/24/2001 / Operator: R. Heller	
Test performed: automatically / File name:	

Detector: Peak	List of values: 10 dB Margin 50 Subranges



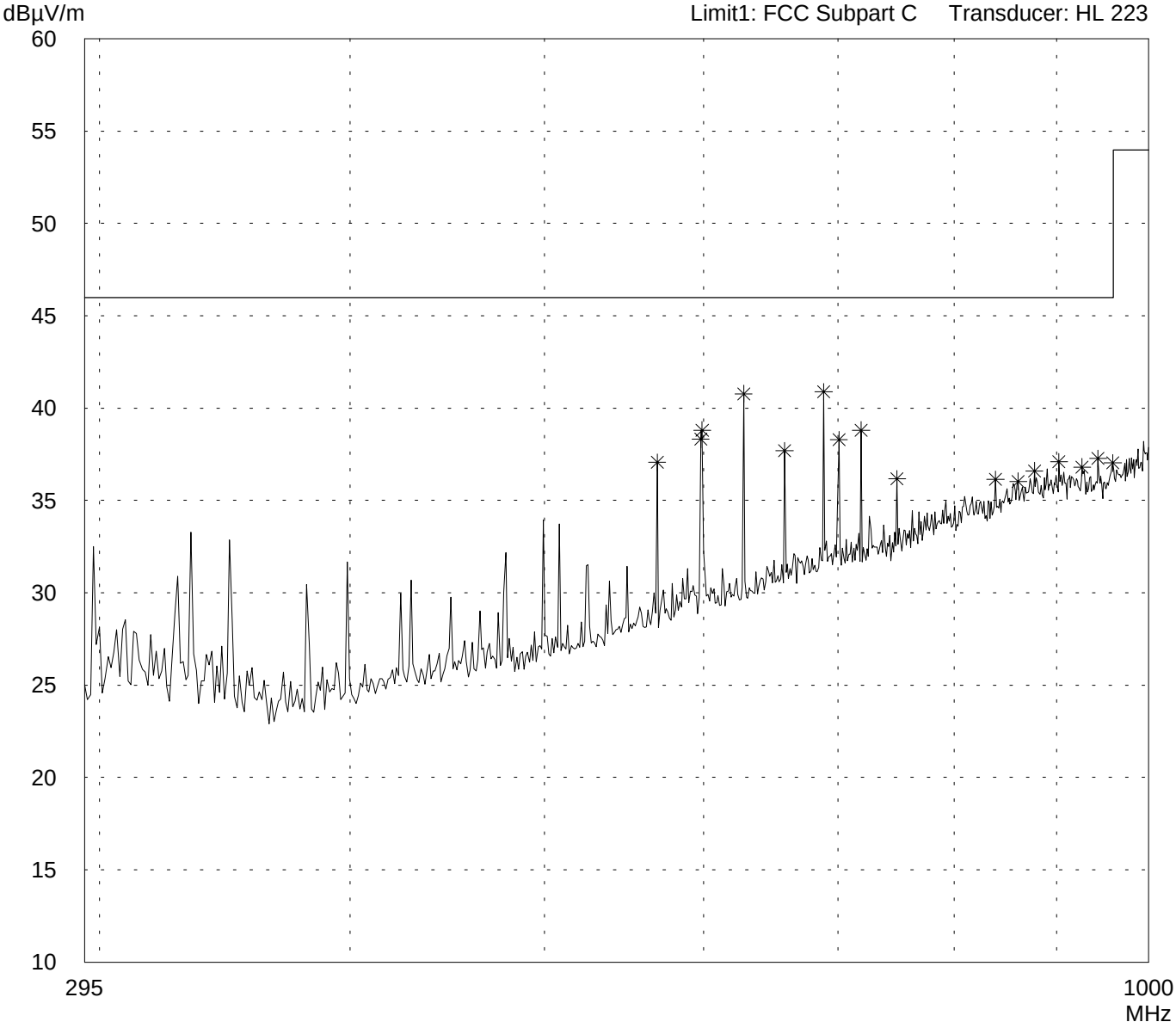
Result: Prescan	Project file: 56305-10552-1

Senton GmbH / EMI/EMC Laboratories / Aeussere Fruehlingsstrasse 45 / D-94315 Straubing / Tel. +49 9421 55220

Radiated Emission Test 295 MHz - 1 GHz
according to FCC Part 15 Subpart C

Model: PC24E-11-FC/R	Mode:
Serial no.: 01UT33300016	- FCC test setup - supply voltage 115 V AC - RF-modem mounted in notebook AT&T Globalyst 200 via PC-card extender Sycard PCCextend 50A - shielding of PC-card extender improved - display switched off - operating with bit rate 11 Mbps - RX mode with f = 2.442 GHz
Applicant: Agere Systems Nederland B.V.	
Test site: Semi anechoic room, cabin no. 3	
Tested on: Test distance 3 meters Vertical Polarization	
Date of test: 08/24/2001 / Operator: R. Heller	
Test performed: automatically / File name:	

Detector: Peak	List of values: 10 dB Margin / 50 Subranges



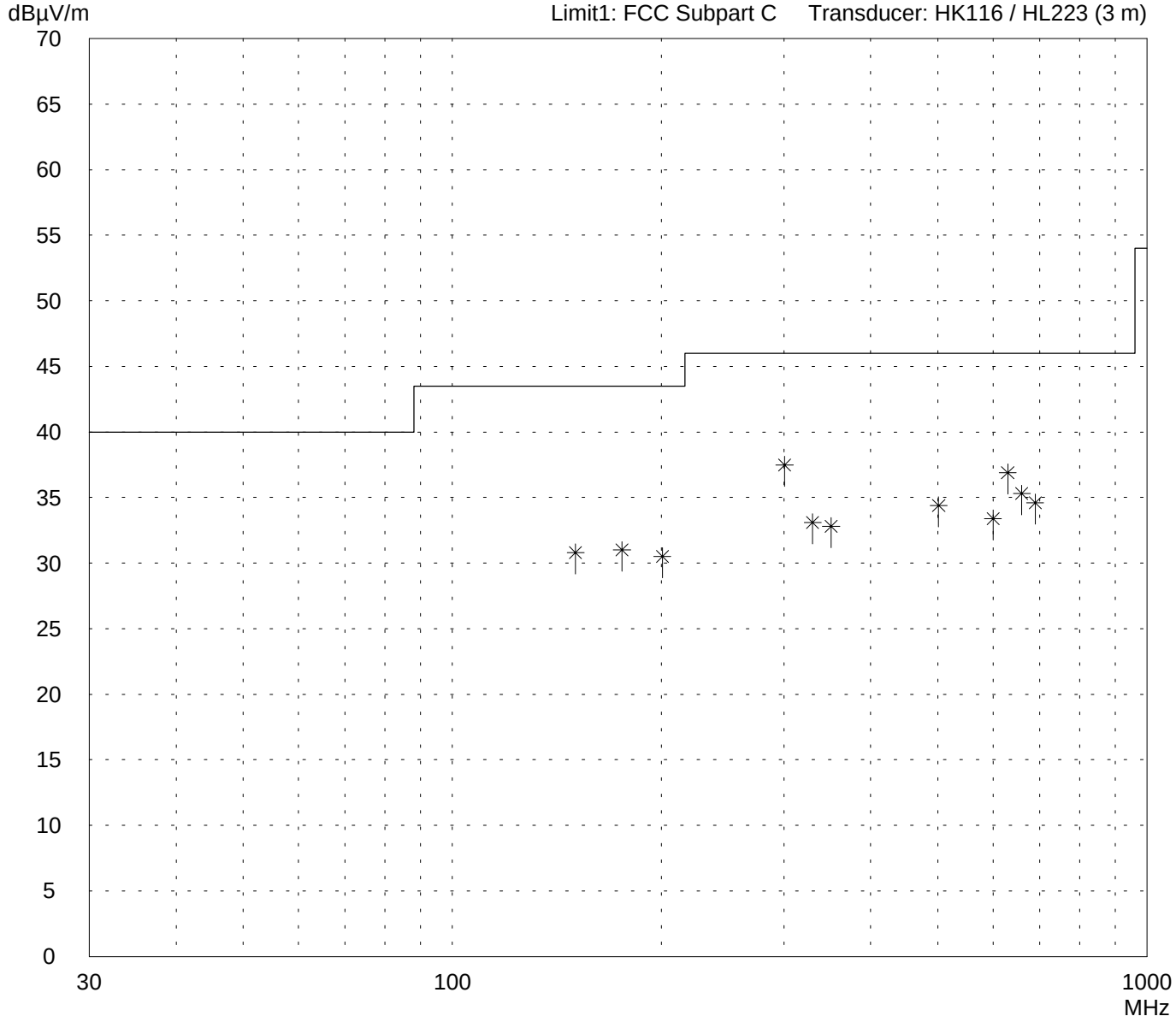
Result: Prescan	Project file: 56305-10552-1

Senton GmbH / EMI/EMC Laboratories / Aeussere Fruehlingsstrasse 45 / D-94315 Straubing / Tel. +49 9421 55220

Radiated Emission Test 30 MHz - 1 GHz
according to FCC Part 15 Subpart C

Model: PC24E-11-FC/R	Mode:
Serial no.: 01UT33300016	- FCC test setup - supply voltage 115 V AC - RF-modem mounted in notebook AT&T Globalyst 200 via PC-card extender Sycard PCCextend 50A - shielding of PC-card extender improved - display switched off - operating with bit rate 11 Mbps - RX mode with f = 2.442 GHz
Applicant: Agere Systems Nederland B.V.	
Test site: Open area test-site I	
Tested on: Test distance 3 meters Horizontal Polarization	
Date of test: 08/29/2001 / Operator: R. Heller	
Test performed: by hand / File name:	

Detector: Quasi-Peak	List of values: Selected by hand



Result: Limit kept	Project file: 56305-10552-1

Senton GmbH / EMI/EMC Laboratories / Aeussere Fruehlingsstrasse 45 / D-94315 Straubing / Tel. +49 9421 55220

Radiated Emission Test 30 MHz - 1 GHz
according to FCC Part 15 Subpart C

Model:
PC24E-11-FC/R

Serial no.:
01UT33300016

Applicant:
Agere Systems Nederland B.V.

Test site:
Open area test-site I

Tested on:
Test distance 3 meters
Horizontal Polarization

Date of test: 08/29/2001

Operator: R. Heller

Test performed: by hand

File name:

Mode:
- FCC test setup
- supply voltage 115 V AC
- RF-modem mounted in notebook AT&T Globalyst 200 via PC-card extender Sycard PCCextend 50A
- shielding of PC-card extender improved
- display switched off

- operating with bit rate 11 Mbps

- RX mode with f = 2.442 GHz

Detector: Quasi-Peak

List of values: Selected by hand

Frequency MHz	*Reading dBµV*	*Correction factor dB*	*Value dBµV/m*	*Limit dBµV/m*	*Limit exceeded*
150.4	14.5	16.3	30.8	43.5	
175.4	13.5	17.5	31.0	43.5	
200.5	11.5	19.0	30.5	43.5	
300.7	18.5	19.0	37.5	46.0	
330.0	13.0	20.1	33.1	46.0	
350.8	12.0	20.8	32.8	46.0	
501.2	9.5	24.9	34.4	46.0	
600.1	5.5	27.9	33.4	46.0	
630.1	8.0	28.9	36.9	46.0	
660.1	5.5	29.8	35.3	46.0	
690.1	4.0	30.6	34.6	46.0	

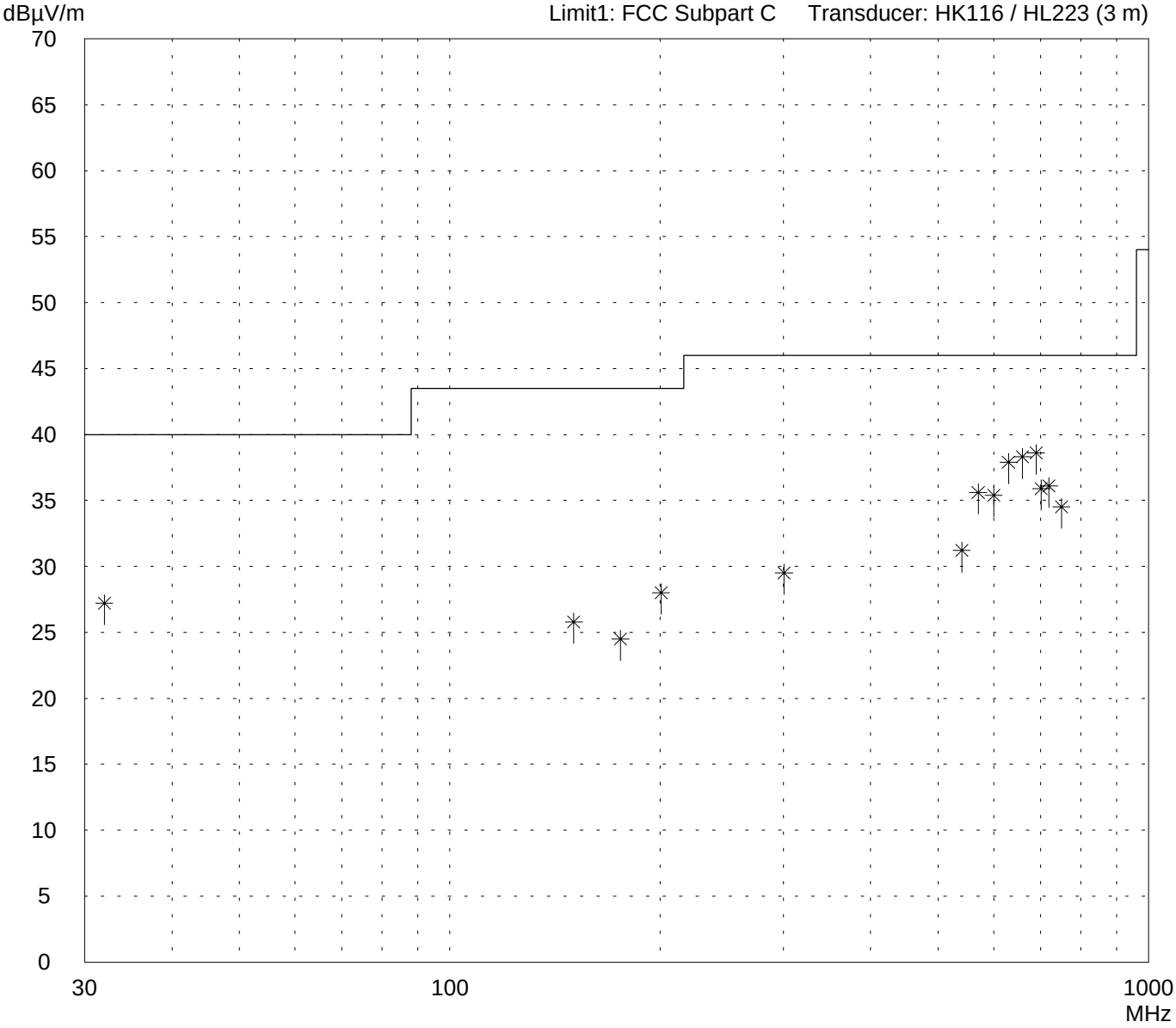
Result: Limit kept

Project file: 56305-10552-1

Radiated Emission Test 30 MHz - 1 GHz
according to FCC Part 15 Subpart C

Model: PC24E-11-FC/R	Mode:
Serial no.: 01UT33300016	- FCC test setup - supply voltage 115 V AC - RF-modem mounted in notebook AT&T Globalyst 200 via PC-card extender Sycard PCCextend 50A - shielding of PC-card extender improved - display switched off - operating with bit rate 11 Mbps - RX mode with f = 2.442 GHz
Applicant: Agere Systems Nederland B.V.	
Test site: Open area test-site I	
Tested on: Test distance 3 meters Vertical Polarization	
Date of test: 08/29/2001 / Operator: R. Heller	
Test performed: by hand / File name:	

Detector: Quasi-Peak	List of values: Selected by hand



Result: Limit kept	Project file: 56305-10552-1

Senton GmbH / EMI/EMC Laboratories / Aeussere Fruehlingsstrasse 45 / D-94315 Straubing / Tel. +49 9421 55220

Radiated Emission Test 30 MHz - 1 GHz
according to FCC Part 15 Subpart C

Model:
PC24E-11-FC/R

Serial no.:
01UT33300016

Applicant:
Agere Systems Nederland B.V.

Test site:
Open area test-site I

Tested on:
Test distance 3 meters
Vertical Polarization

Date of test: 08/29/2001

Operator: R. Heller

Test performed: by hand

File name:

Mode:
- FCC test setup
- supply voltage 115 V AC
- RF-modem mounted in notebook AT&T Globalyst 200 via PC-card extender Sycard PCCextend 50A
- shielding of PC-card extender improved
- display switched off

- operating with bit rate 11 Mbps

- RX mode with f = 2.442 GHz

Detector: Quasi-Peak

List of values: Selected by hand

Frequency MHz	*Reading dBµV*	*Correction factor dB*	*Value dBµV/m*	*Limit dBµV/m*	*Limit exceeded*
32.0	12.5	14.7	27.2	40.0	
150.4	9.5	16.3	25.8	43.5	
175.4	7.0	17.5	24.5	43.5	
200.5	9.0	19.0	28.0	43.5	
300.7	10.5	19.0	29.5	46.0	
540.1	5.0	26.2	31.2	46.0	
570.1	8.5	27.1	35.6	46.0	
600.1	7.5	27.9	35.4	46.0	
630.1	9.0	28.9	37.9	46.0	
660.1	8.5	29.8	38.3	46.0	
690.1	8.0	30.6	38.6	46.0	
701.7	5.0	30.9	35.9	46.0	
720.1	5.0	31.1	36.1	46.0	
750.1	3.0	31.5	34.5	46.0	

Result: Limit kept

Project file: 56305-10552-1

Senton GmbH / EMI/EMC Laboratories / Aeussere Fruehlingsstrasse 45 / D-94315 Straubing / Tel. +49 9421 55220

Radiated Emission 1 GHz - 12.5 GHz
according to FCC Part 15 Subpart C

Model: PC24E-11-FC/R
Type: RF-modem for wireless LAN
Serial No.: 01UT33300016
Applicant: Agere Systems Nederland B.V.
Test-site: Semi anechoic room
Test distance: 3 meters
Date of test: 08/21/2000
Operator: R. Heller

Mode:
- FCC test setup
- supply voltage 115 V AC
- RF-modem mounted in notebook AT&T Globalyst 200 via PC-card extender Sycard PCCextend 50A
- shielding of PC-card extender improved

- operating with bit rate 11 Mbps

- RX mode with f = 2.442 GHz

Detector: Peak

Frequency [GHz]	Polarization	Analyzer-reading [dBµV]	Generator-level [dBm]	Cable loss [dB]	Antenna-correction [dB]	Fieldstrength [dBµV/m]	Limit [dBµV/m]
1.0 - 12.5	> 10 dB margin of peak levels to average limit						74

Result: The limits are kept

Radiated Emission 1 GHz - 12.5 GHz
according to FCC Part 15 Subpart C

Model: PC24E-11-FC/R
Type: RF-modem for wireless LAN
Serial No.: 01UT33300016
Applicant: Agere Systems Nederland B.V.
Test-site: Semi anechoic room
Test distance: 3 meters
Date of test: 08/21/2000
Operator: R. Heller

Mode:
- FCC test setup
- supply voltage 115 V AC
- RF-modem mounted in notebook AT&T Globalyst 200 via PC-card extender Sycard PCCextend 50A
- shielding of PC-card extender improved

- operating with bit rate 11 Mbps

- RX mode with f = 2.442 GHz

Detector: Average

Frequency [GHz]	Polarization	Analyzer-reading [dBµV]	Generator-level [dBm]	Cable loss [dB]	Antenna-correction [dB]	Fieldstrength [dBµV/m]	Limit [dBµV/m]
1.0 - 12.5	> 10 dB margin of peak levels to average limit						54

Result: The limits are kept